

<213> Homo sapiens

<400> 7397

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caaagtgttg	ggattacagg	catgagccac	tgcgcccggc	cctattcaat	tctatttagt	300
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agtttagagt	gcttagatit	tccctctttt	tcatgcaatt	taatgaatgt	taaattagca	420
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<210> 7398

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7398

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tgggaatata	ggcatgtgcc	ccatgtgctg	gggattitit	tgtatititg	tattititagt	180
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tcccaggcac	ccttgctagg	taagctgggc	tctgacaagg	aagtgtgatg	agggtaaaca	480
gttaaggaat	tgcctgcaag	gncttctcgc	ttccaagtit	tcttgggtgag	caaaaagtaag	540
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<210> 7399

<211> 476

<212> DNA

<213> Homo sapiens

<400> 7399

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tacaggcgcc	cgccaccacg	cccggctaata	ttititititg	attitititgt	ananacgggg	180
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aagttctaga	aacccctgaa	ctgacgagct	tcttctcagt	gaaaagacgg	tccataaaca	360
gnggatttag	aaacgcgacc	cgaccttact	gngagnggtt	ctgatagtcc	ttgncacggg	420
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<210> 7400

<211> 567

<212> DNA  
<213> Homo sapiens

<400> 7400

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tttcttaaat	acatgggctc	tgagtttcta	ttccttgacc	tggagcagga	ttacaaaata	180
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aagctaagaa	cctcctagtt	gcatgtaa	tataaccatt	aattgactgg	aattcctagc	300
atgtacttgg	tcttcattaa	cattcatgtt	aactgcaggc	caaaacagtt	ctgctgctgt	360
taaatcattg	attctgcaat	ggcctaaa	ctaactcttg	gataactagc	catctaaa	420
ccccttcacc	cacactttat	ttctgagatt	ctcagtaa	ctctccagaa	acccggttga	480
ccatggaaaa	accaggagga	atcatacttc	tggatgggg	ttctcctcca	aacttatatc	540
ggaactggac	accanttttg	ggagggtt				567

<210> 7401  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 7401

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accagtgtgt	gtctttta	tggggcattt	agtccattta	catttaagtt	taattattgt	180
ttcatgtgaa	tttgatcctg	ttattatgac	agtagctgg	tattttgcct	gtaggttgat	240
gcagtttctt	catagtgtcg	atgggtctta	caattttgta	tgtttttgca	gtggctggta	300
ccagtttttc	ctttccatat	ttagtgtttc	cttcaggagc	tcttgtaagg	cagccctgg	360
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ggaatttagc	taggttggat	aggaaatctg	ggttgaaa	ctttcnttaa	gagtgtgaat	480
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<210> 7402  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 7402

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tattgaaaaa	aagaaaaaaa	aagaaagaaa	aggtaaaaag	gtaatctgtg	acacaatcca	180
aatgcttaca	ctccagggat	tgagtaagag	aaaccagggg	cagccctgcc	acagagaatg	240
acggctcagg	ttgagtgaca	tctgagattc	atcttctgta	cccgtgaacc	tgactcccag	300
gacaaccctt	aggaggtttt	gacttttgac	attagttagt	taattcttaa	ccagattctt	360
aagaatttca	gggccaacaa	ggcttgaatg	tacggttttt	ccaatttggg	ggatgggagt	420
ggggaagctc	ttcctgggac	agattcccag	gcaaggaaa	gccccagcag	ttntgnccct	480
acctgggctt	ntgcttcatt	tnccacgaga	aacttggggg	cttgctgggg	cttntnaaca	540
acctgnacaa	gctttta					557



<210> 7403  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 7403  
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tacaggcgca tgccaccatg cccagctaatt tttttgtagt tttagtanan atggggtttt 180  
tccacattgg ctaggctgat cttgaacttc tgacctcagg tgatccacct gtctcggcct 240  
cccaaagtgc tgggattaca ggcttgagcc accgcgcctg gctgtattgt cattttaaac 300  
accgtatcca gataaactgt aagagggaac atggaataga atgcttggtt ttcacttggt 360  
aatatTTTTT ttaattttca aaaaatagaa gtgatgtact ctaaccacca tataaataat 420  
ggccagngct ctggatatcc ttttttttaa ttttttagag caagacgtat ttcaacgact 480  
ggcaccaatt tggtnctgc ctttnttggc caaaaagaaa atttgnttt aaaanaaggt 540  
tann 544

<210> 7404  
<211> 420  
<212> DNA  
<213> Homo sapiens

<400> 7404  
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caacctcgac ttcccagatt caagtgattc tcctgcctga gcctcccagag taggtgggat 120  
tagaggcacc cgcctccaca cccagctaatt attttgtatt tttagtagag atgggatttc 180  
accatgttgg ccaggctggt ctcgaaactcc tgacctagtg attggccac ctaggcctcc 240  
caaagtgtcg ggattacagg catgagccac tgcgcctggc ctttctcttt ctctcttttt 300  
atTTTTtgaa aaacccggtg gactttgcgg tgaccatttt tgttgacttt tttttttttt 360  
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<210> 7405  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 7405  
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gagaaggaac agcccggcgg tcatgggagc actcatcaca gaagccctgt ccgcaggccc 120  
ggcagtggtg cttggagagc ttgatgttga actccttccg gcagttgttg cagtggagga 180  
tttcgtggtc aggcacccag tacgcaggcc tggccgcgtc ctttaccaga cctagtggta 240  
tgtcaatggc tgtcaccacg gctcccagag tgttctgcac ggctcgcgc accctccgag 300  
caatgagcgt tccaccttca tctgtacttt gtgcctcggg aacagctaac tggacgttcc 360  
tggcttcgta gcagttgtca cagacccgac tggcgcaggg cccagcccc gctcaggcac 420  
tggccgagtc tttgatgaac aagcttgnca cagaagccct tcccacaggc ttggnantga 480  
tgcttaangg ccgtatcttt naaggacgtt nnacacttgg tgcag 525

<210> 7406  
<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 7406  
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tacagggtgcc tgccaccatg cctggctaata ttttgtattt ttagtagaga tgggtttcac 180  
catgttggcc aggctggctt caaactcctg acttcagggtg atccaaccgc ctgggcctcc 240  
caaagtgctg gggttgtttc cagtttttgg ctattaagag taaagcaaca ttgtttgttt 300  
ttttgactct taaatgcctg tcttataaat ggcgctaagc agggaaaagc taattattaa 360  
atattgtttg actgaaatgt gaaccacatt tttccctaata ttatgtcaga aatcactatt 420  
taataatatt ggttngttt atatgtgatt ttaaaatgat cccacactta attaaaatga 480  
ccatccctga aagtgaancc aaaaggaagg aatcctctaa nctactttgg catgacttgg 540  
ctttaaaagg gcccggttt 559

<210> 7407  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 7407  
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ctggtttgct gcacccatca accccgtcat ctagggatga cgccgggaat ttcaagcccc 120  
gcacgcatta ggtatttgtc ctaatgctct cccttccctc atccccacc cccaacaccc 180  
ccgacaggcc ccggtgtgtg atgttccctt cccggtgtcc atgttgaaca ataacttctg 240  
catccctgta tatagccaca ggtgatgtgg ccaggttttc tattgattct gatagtcaca 300  
aaggcaagaa ctatattatt cactccctct tagtaaaagc tctagcctag tctaggcttt 360  
tagatcacca atagttcggg aactttcact tgtcttccag atttcatggg tagagcagta 420  
ggctacaggc caacaaagag caaatggtag agtgagagat gtgacaggcg angtaaagca 480  
ggaacagaga cccccacang gcaagccaga cngnacacan cnggaatggt gc 533

<210> 7408  
<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 7408  
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ccaccgcct ccgcctccct ggggtgctagg attgcaggcg tgagccaccg cgcctccggc 120  
ccaatttagt aaccagaaag gaatagatcg gcctggcgtg gtagctcatg cttgtgatcc 180  
cagcactgtg gacggccgag cgcggcgatc gattgagcct aggacttcca gaccggcctg 240  
ggcaacgtgg tgaaacactg tctttttttt tttttttttt ttttgagtgg agtttcgctc 300  
gttttgagg ctggagtgcg gtggcgtggg ctgcactcac cngggcctcc acctnccggg 360  
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tgccagctaa ttttgggttt atttttttgg tacaaacngg gtttttcgng ttgggcaagc 480  
tgatctgagc ttctgacctt gagtgatacg cccgcttngg cttccctggg ggctgggaat 540

tgangcctta nccaccgggc ccccggtct 569

<210> 7409

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7409

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ggaatacagg	catgtgccac	cacgcctggc	taatttttgt	attttttagta	gagatggggg	180
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cctcccaaag	agctgggatt	ataggcggga	gccatggcac	tcggccctat	tttgcccggt	300
ttcttgagac	atcttaaagt	aacatatagc	ttcaggaagc	catggtagca	gacaggacca	360
cagtgttttc	cgtgatgtgg	cccgtctcct	agagtccagc	agaccggacc	ttcgcaagaa	420
aaactgctga	ggagatggag	aangaaaggc	ccaaagcctg	gtattcactt	caaaagcnag	480
cgctgangan	atggaggaag	ggcnaaaacc	tggatattac	tttanangca	gccttaagaa	540
ttgganga						548

<210> 7410

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7410

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agagtacaga	ataaataaat	tagtctgtta	tataatggca	taaaatacat	ttactaatag	180
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tttgaaaggg	tatgtataat	ttgggaggag	atatttttgt	gaaattaaga	acataggctc	300
tatgttctta	atttctataa	ctttcagaat	gtgaatctga	gctctaacag	ttattaactg	360
cttgtttcct	cactagtaaa	attgggataa	taatactata	aggnatgact	gnctcagcta	420
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actattggaa	gatcagnacc	ttacccggan	ctggatcnag	tttaaaaaga	aactcantgc	540
tggttttaaat	ttttggaaaa	ggnc				564

<210> 7411

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7411

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ttacaggcat	gtgccactac	tcctggctaa	ttttttat	ttagtagaga	tggggtttct	180
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ccaaagtgtc	ggggttacag	gcatgagcca	tcgcgcctgg	cccctacatt	tttaatgcct	300
ctaaaatcca	gacatgtttt	tataatcaat	ggcaccttgg	acttgatgaa	ataaagtaat	360

caaatagttt	taataaatca	aataccttta	aaaatataaa	caatttataaa	attggtctaa	420
gaccaggtt	ccaaccttan	gatctggata	tgaccataat	gctatantag	catattaaag	480
cngagacccc	gaccatagcn	gnaacccttt	naaagggnaa	aaacctggta		530

<210> 7412

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7412

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accttttttag	gagtagttac	agatattata	gggatggggg	cgggggggcac	taaaacaaaa	120
gagaaaagcn	ccagtganat	gtctttccca	ttttcttctn	tccgccacgg	aacacgcaca	180
ccaacagagc	ccaggccact	ttttgccctc	ttcccttggg	aaaaggagga	acagaagatt	240
taanaatttt	gaaaggattt	ttttcttngn	tgaatgtgtg	taaaagtcaa	tgctataaat	300
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ggccttaacc	cttctttttt	cctttnaaaa	ggcaaanccc	cacttttggg	actcggtcgn	540
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<210> 7413

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7413

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tacaggcgag	cgccaccaca	cccggcta	ttttgcattt	ttagtagaga	aggggtttca	180
ccacgttggc	caggctggtc	tcaaaccctt	gaccttggga	tacgcctcgg	tctcccaaag	240
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ctgtttcctc	atcttaaaat	ataacaatat	ttcctgccct	gcctaaacca	ttgggatggt	480
gggaagaatc	caatgagatg	gcctatgtga	aagctttgga	actgggaatt	cccggntnaa	540
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<210> 7414

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7414

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tctatgtccc	cttttttttc	ctttcttgcc	ttcttttggg	ttatttttta	ttattccatt	180
tccttcctgc	taataactta	atggatatat	attacttttt	accatcataa	atgctttata	240

accagtgttc	taataagtca	tctattaaaa	ttttatttta	cttctgacag	attggaatga	300
taaatgagtc	tgttttctca	atggctggca	taattttgat	agcaaacttt	ccaaacagca	360
ggacatcaca	ccccgacaac	atgactcatc	ttcagagaaa	atttagttag	aatgacggag	420
aattccagaa	aaattactgc	atactcagag	tgccaatttt	tcagaacttc	atgcaaaatg	480
tttatttggc	cacaatctca	aaactatatt	cccaacttgt	tctgaagttc	atattaatat	540
tngnaactta	aatggcnttt	aaa				563

<210> 7415

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7415

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aacataaaaag	acattttaata	agttataatc	aagtattatg	tttcaatttt	gttgtgagtt	180
tattacattt	gaaagggtgt	aacacattgc	acataatgaa	atagctgtta	tttccttttg	240
aggggttaag	gtaaatggag	tacaatctga	agtatgctct	gtttttttcc	tgcaagcctc	300
tgaacattac	agctgtttac	agtatgctgc	tgacaaattc	aaagtcaggt	ggtgaatctt	360
tgagtaagcc	cattagctag	gaagagatta	taacactgtt	ccctgactat	aaacttaatc	420
ctagttagca	gctttctaac	tccctttaca	acagggaaga	ctcagtggga	aaatgtagaa	480
aacccaatgc	actttgnacc	acaggagaga	ancacctgng	aatatcatgc	taggnggaan	540
ggaagnctt	ttatttang					559

<210> 7416

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7416

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ctccactgtc	ccttcccctc	acaaaaaatt	aagtatagac	cacctgactg	catccattta	180
tcaatattaa	ctcagctctg	gcttcatcag	atttctcctt	aggtctgatt	tcttcaactca	240
tttaaaaaaa	gattgcttct	caaactatct	attttctgag	atagggtttt	gctctgctgc	300
ctaggctgga	atgcnagtgg	tggaatctca	gctcaatgca	aactctgcct	tctgggttca	360
aggcccatcc	tccaccttaa	gcctcctgag	taactgggac	cccagggtggc	caccaccaca	420
ccgggctaatt	tttnggnitt	ttattnaagn	caaggttttac	catggttgcc	caggctggtc	480
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<210> 7417

<211> 480

<212> DNA

<213> Homo sapiens

<400> 7417

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atthttcaaga	tggcaccttt	ccccaaactt	ctataccatt	cattaaacat	agactgcaaa	180
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tttaaaaatt	tgatttagtt	ggcaatacac	tgggagggtt	cacataaata	tctaggtttc	300
cagcttctct	gaagaaatga	gaaaatccat	tcccacatgg	caacaaccag	ctggagctaa	360
cagctgttag	acagcatgct	gntccccgct	actgncttac	acccaaccag	cttcatgngg	420
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<210> 7418

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7418

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atgcaaactg	tcattctttg	aaactgctgg	tatgtggaga	ttgcacaact	tcattgtacaa	180
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tgaattacaa	agcagccctc	aagagatgtt	acacacgtga	taacaagtag	tcactgctgg	300
cctgtcattt	tagcaattta	tagtttgctt	gatatatgtg	tctgtgtgta	tgaatctaaa	360
gaatgagaaa	aaattaattg	ngtagtgatt	catttatcag	gagtcagact	taataaaatg	420
gaacaaaaac	atcacaaaac	ggtaaagcat	ggagaatctg	gtggggtnaa	gggccttgga	480
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<210> 7419

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7419

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aatggtaact	ttttctatca	tttcacatta	atccagttat	tcattgtatg	atatctattt	180
ctttttttta	aaaaattcgt	tgatatacac	tattattaat	ggggagtagc	tgataatttg	240
atacatttat	ataatgtggg	aagatcaaat	cagagtaatt	agaatgccta	tcacctgata	300
tatttatctt	ttctttatgt	taagaacatt	tgaattgnrc	tcttttggct	actngnaaat	360
gtcaacatac	tatttggtaa	tatagttccc	ccaccccaac	cactggatct	attaacactg	420
agtcttaatt	cttctatctg	actggatgga	tctaaggatt	tttacncatn	ggtgggtgta	480
ggggaaaggn	cccaggttgg	agacanttaa	gtnccccatt	taccattang	gaaaaggaaa	540
anggc						545

<210> 7420

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7420

gagacagagt	ctcactctgt	cgcccaggct	ggagtacagt	ggaacgatct	cagctcactg	60
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caacctccac	ctcccgggtt	caagcaattc	tcctgcctca	gcctcccaag	tagaagtgct	120
gcatacaaag	cctactttct	ggcccctacc	cacttctcta	gtcagatata	tctcactgaa	180
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gttccttctg	cctggagtag	ctcactttct	gtcaaccttg	ngaacaattt	ctcaactttt	300
aggacagaac	tcaggtatca	ttcctccaaa	tagtcttcta	aatctccctt	ggcagatcaa	360
ccactccttc	ctttggatcc	tctctcccta	actgctatag	aagntgggtg	gtgggttttt	420
ggttgggttg	tttgagacaa	ggcttgctct	ggcacccaag	aaggaatggt	ggnggcata	480
acttggctna	tggaacttca	cttccaaggt	caagcaattn	tccggcttan	ncctcggaga	540
actgggaata	ccngncnc					558

<210> 7421

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7421

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gctgcgggct	ctgcagtgag	actgaactgc	cctcggccag	atgcacgtcc	ctttcttttag	180
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tggggaggac	aaaagcaaaa	cagaccgcag	gcagcgggtg	tggagaacca	ggtgaggccg	300
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gaaggcagag	ccctggtagc	tccccagtt	gttggaccct	gaggccaagg	gcatgggttg	420
ggcctgcgag	gggcccggga	accctgggga	caggaaaggan	gcccctggnc	tggncctgct	480
ggaaaatgan	gctcccgggg	gacagggtgc	gggncagnct	tgtaccgcgc	ggaaaaccan	540
gagcaaaa						548

<210> 7422

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7422

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aaataaaagct	ttggtatttc	tgataaaagcc	atcaaattcc	ttatcgcact	gacacaaaagt	120
gcattttaaag	agacagacac	cctgtccctc	cctcctcacc	agcccctgcc	ccctccaacc	180
agttcagatt	tccagctgct	cagacacttt	gggatcagac	accaaatacg	gctcctgagg	240
acatggatgg	ggggcagggg	gcaggggaca	ggggcggagg	tagaaaaccc	ttgccaattc	300
ccccccaact	gatgtcagag	ctgccggcac	cctgaactcg	gtcccagggc	gtggcatggg	360
gcttcctgac	ccaactctgg	aagccgaagg	gagctatgaa	tagagacgtc	ctgcaccgga	420
ggacgtcctc	ataaacagaa	caatcctgtg	gtaggacaac	agcatcantg	ggaggaagaa	480
gtccggcagg	ctggtgggcc	nttaaggctg	tgcagccgtt	gcaacacccc	tggncgctta	540
acgaccaaaag	cggttcangg	accggccna				569

<210> 7423

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7423

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tacaggtgcc	cgccaccacg	ctcgggta	ttttttgtat	ttccagtaga	gacgggggtt	180
caccgtgtta	gccaagatgg	tctcgatctc	ctgacctcgc	gatctgccc	ccttggcctc	240
ccaaagtgt	gggattacag	gcgtgagcca	ccgcaccg	ctttaatttt	tttttctcct	300
ttggtatgca	tctctgcaca	tggtgagaac	atcaatagat	aatccatatt	catcacctct	360
tagcatttca	gttttcagtt	gaagactaaa	aaatcaaata	aatttttaaag	ttaaaatata	420
ctctaaatat	tatccctcct	tgggagta	tgntgctatt	gggtttatga	tagtcatcaa	480
taaataagaa	aggaaacaga	cgcancaaaa	agaaagacag	ggactagggg	ctttctccta	540
ataggaaaaa	agttgngg					558

<210> 7424

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7424

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agaagttgcc	ttttcagacc	cacccaggca	gagccaggag	ctagccctca	ctgtgtccac	120
agtgcagcct	gccaggccag	cagcaaaacta	actagtgtctg	gccagaagc	ctctgtctcca	180
ttttgatatg	aatcaaagt	aagtcagtat	aactatttga	actttccaaa	ccttcctgtc	240
caacacatga	aaggtttagaa	aggttaggca	attggtctga	ggtcaccag	ccacctaggt	300
caactgacaga	ttccaaagct	taggttcttt	cccactcccc	accaggaggt	aaggaattct	360
tagttcccag	ctgcagagaa	gtgccaaaag	caaaaaccaag	gatggtatgg	gtccactctg	420
ttcagtaagt	atgaacaaaa	ttagaactgg	gtagccagcc	cggggtcggg	ggggagggtcc	480
caaggnttga	agtgggaagt	aaaaaagggg	ctaattgctaa	atctcagtta	ctaaaagcta	540
anctggccct	gggataactt	ttagccngg				569

<210> 7425

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7425

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atgcatcctc	taacactgac	caacataact	aagtacaaat	gaagtcaatg	gtgtacccca	180
ttagcatgct	gcgttgtatg	tcaataaaac	aagccctccc	ccaccccgag	ccctggcccc	240
tggcaaaaca	tagataaatg	attgtgcact	gcgtgatgat	accattaggt	gagaactttg	300
gttcatgcag	tccggtgccg	cagagggtgc	acccaaaacc	cgcagccccg	gcacccaaag	360
tcagtcagcg	gtggtggctc	atggtgtcag	cccngctcct	ttcacaacac	cagggtgaatc	420
tggggcaagg	catgctgggtg	ggcaaagacc	cagncccggg	cattggggcc	attccggcca	480
tttagccngg	atgctttggc	tggcaggaag	cttgggnctn	ttttggattn	ctggancctg	540
gcana						545

<210> 7426

09629469.072300



<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 7426  
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caacctccac ctcccgggtt caagcaattc tcccccatca gcctcccaag tacctgggat 120  
tacagatgcc tgccaccacg cccagctaatt tttttgtatt tttagtagag acgggggttt 180  
gccatgttgg ccagggttgg cttgaactcc tggcctcaag tgatctagcc gcctcggcct 240  
cccaaagtgc tgggattaca gacgtgagcc actgcgcccg gcctcaggct ggaattctga 300  
tccccccaat ttgcagacaa ggaaactgag attcagggag gtgaatggat ttttccaagc 360  
tcacacacct gacaagtggg acaacaaaaat tcaaaccag gtccgcaggg ttctgaggtc 420  
aaggctataa tccccagggt agcctggctg ggtcaagctc aaggagcatt tngggaactg 480  
aantaacgcc taatcnggtg ctgggtatga acgcaacaan caccactgga naaggccaan 540  
ttggcacanc ttgttaagca ggaagcccca 570

<210> 7427  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 7427  
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catgcatcac catgcctacc taatttttgt attttttgta gagatggggg tttgccatgt 180  
tgcccaggct ggtctcgaat tcctgagctg aaatgatcta cccaccttgg cctcccaaaag 240  
tgctgggatt acaggcgtga gccaaaaagtc aaaaatttta aaaaggtaaa tgttgccaat 300  
tcatttttaa aagttttatt atttttgggt ctccaaaaca tttctttttg aaaatgaagc 360  
acacagaata catttaaaat ctgatgtaaa aaaccaaaca tctgatttta aatgggtgta 420  
tacaaaaatc caatcccagt aaattggctc ctttccaaga atggaagcat cttttcctta 480  
ngaactacat tttcttttat ggnaggaaaa aaaaaatcta ttaaataaag tctgggtccaa 540  
agactnaaga cactggaaat nccccggnga ngga 574

<210> 7428  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 7428  
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caacctccac ctcccagggt tacgcaattc ttngcctca gcctcctgag taggtgggat 120  
tacaggtgcc cgccaccacg cctgcttat ttttgtattt ttagaagaga tagggttttg 180  
ccatgttagc caggctgggtc tcgaactcct gacctcaggt gatctgcctg cctcggcccc 240  
ccaaagtgtc gggattatag gagtaagcca ccgcgcccgg cccaataaag ctctttttta 300  
gtgatcatgt ctgaactcta cagtaatgag gctttaccac attcccatgt gaccgcagct 360  
tgatgtgact acacaagaag aacctgttaa ctaaagccaa gaaggcggag tcgacagctc 420  
cgtgactcgt taggaaggat gggaaatgca ntgtagaaag acaacccct ntccagagct 480  
tggaacacaa gcttcatctg aagacgatta anattccctt cttgganaaa ttggcaattc 540

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ncanggcattg ccnct

555

<210> 7429

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7429

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ctgacagaat	aaatgcaggc	aattttacaaa	ccaaggggac	tgcagggaaa	atcaggattg	120
gcagccaggg	agagaaaaga	ggcacacccg	gagctgggtat	ccctcacctc	caccactcag	180
caaggcgccg	gacagatata	cggaggggcac	tctgcctctg	ccgggggggtt	tttttagaaa	240
aggaattgca	tagaagatac	agcaagaggg	aactccacaa	caacaaaagt	gttccatata	300
ggaaaagcca	aggttgtcat	gttttgttta	aaaaagaaaa	acgacaaaagc	acaaaacctc	360
aatccgacct	ttctgcagtt	gaactgttcc	aaaggggaca	gtaggtggat	gacactgcct	420
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aagaggaagg	caccaacttg	cttaactcac	attaactcaa	cacntttaca	ccatgacnta	540
ccacacncag	ggagntcctg	n				561

<210> 7430

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7430

gtagatagat	ttctcataga	tttattttctg	cgatcatatta	tatatagata	tatgcatata	60
tacctttttt	tttttaatac	aatttatata	cccttccctt	ccccacaaa	ctcacaaaag	120
gagattaaac	ccttccagga	ttgccatcaa	gcttcccag	atggccaggg	ccaagaaaaga	180
atcatctctc	aacatgttaa	gaaacggctg	ccattcttag	gctctgggggt	tgaagcagca	240
gcattcccag	gacccaaggg	ccagagagag	gaaaagaaat	gactgtagt	tgacaggatt	300
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gtataggaac	tggggatcag	gcatgcaggg	atgggggtggc	agaaaaaacg	ctgnnggnta	480
tgctccagac	agagcgaccc	catcaggcta	cccactactc	atgacatgta	atgaacaggg	540
ccaatcctga	ctnttaagga					560

<210> 7431

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7431

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caacctctgc	ctccaagcga	ttctcctgcc	tcagcctccc	aagtagttgg	gattatagggt	120
ccctgccacc	acgccagct	aatttttata	tttttagtag	agacagggtt	ttgccatgtt	180
ggccaggcta	gtctcgaatt	cctgacctga	ggtgatccac	ctgcctccgc	ctccctaagt	240
gttgggatta	taggtgtgag	ccaccacgcc	cagccctttt	taagaaggct	tttctactgc	300
cttggaaaaa	attcagattg	ctttaggaat	cattactttc	tccaggccta	cacctctcac	360

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-2947/13211-

agggaagaaa	aaagtgcattg	tctcctaaga	agtgccagag	cagttaacta	aagcacttgc	420
ttcaatgctg	gctctaagct	aatagaacaa	gaatcccaaa	tgaagccac	aagagttttc	480
tgnaaaacac	tgacccgaaa	aacacttgct	tttggtttta	acttggccgt	taaaaaatat	540
tattaacctn	ccgaa					555

<210> 7432

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7432

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aacatattca	ggattaattc	tagaaagatg	ctatagctga	tttataaaac	aaaatgattt	120
aggatcagaa	agaaaatagg	ggcacacaat	ttcatgtagt	ctctccctaa	ctacccccaa	180
ccatagcatc	acaaggtttt	tttttttcct	aatgccacaa	ttgaaacctg	tattaactta	240
aaagttgaca	ctaaaggcag	gaattaagaa	gtcatttttt	atggctttta	agcacttgaa	300
tgctttanaa	cccccttgaa	aatgctagtg	aacagggtctt	attcctttta	atgttgcttt	360
gatttgaatc	ttggtgaaat	ctagattccc	tattaaatag	ctgcatgcta	attttggaga	420
aaagtcaatt	taaaaccttt	aacaactact	ctattggact	tgaaanaang	ggactttanc	480
atgtcccttg	ttgggcttan	aaaaancttt	caaccctttt	ttgncaacct	aagataaaaa	540
ccatggatgg	ggacctcc					558

<210> 7433

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7433

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acagatgtgt	gccaccatgt	ctggctaatt	tttgtatttt	tagtagagat	ggagtttcac	180
catgttggtc	tcaagctgct	gacctcaagt	gatccacctg	cctcagcctc	ccaaagtgtc	240
gggattacag	gtgtgagcca	ctgtgcccgg	ccagcatgga	ctttttaagg	aagtattttg	300
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tgcttanttg	natggnaatc	ggcttcaact	tgaaacttag	gacccaacat	tttggcttgg	540
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<210> 7434

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7434

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agagattact	gatatgcaat	aatgacctat	gactttacat	taatggagtg	atgtatcaat	120
aataaactga	tcagttaagt	aactggaaaa	tgtttgcatg	taaagaatga	ttcactatcc	180

09629469-072800

tttttatctt	gtattgaaat	cgtcaaaaaca	tttaaaaaca	caaagttgaa	gtaattttta	240
ataataataa	ctgtgaaata	ctgcaacatc	ttgaagtact	ttataaatga	ccaaaaacag	300
gtaaaatttt	gttcagtata	acttcagtga	agaagttttt	tgacacagaa	ctacatatat	360
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ataaataaaa	ctctacattg	nttgggttta	caggcctagg	agcttatacc	tcagtaccac	480
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ttacaaaaac	ctccaat					557

<210> 7435  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 7435						
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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<210> 7436  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<400> 7436						
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acaaattttc	cgggaggcac	gtagcaaaaag	gccattgagg	aacagagcct	gatgaaacga	120
acaatttttc	aaagtctggt	tacagagaag	gaaagtgaag	catctcaagg	ctgggatgct	180
gctgcccacc	cccacccac	cccgccacca	agtgcattg	aggctgggca	ggccacatgg	240
cctggggcct	ggcgctggcc	actcatttcc	ttcaaaatct	tggttttggc	aaaaacatgg	300
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gtggggaggg	agtcagacgc	ccagtgcgcc	aacttccatg	cacacacact	cacactcata	420
cactccttct	cgctgacctt	ctcctggctg	caacaagcca	gcccggtgcc	tgcagatcac	480
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taacaggaan	cngaaggg					558

<210> 7437  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<400> 7437

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cacaaacttt	tcactgtatt	taacaagtta	acagtgtcaa	actacacgtc	actacctgtc	120
aaacccaag	cactcaactt	agaaacaaaa	agcgcttgga	gcactgaatg	gaaacagaaa	180
aaggctaaga	aaggccaaca	gagatatatt	agaagcagtt	aaagaggatg	gtttagggag	240
agttagattc	ctgagcacca	tcagatttcc	cttaaggttt	tttgtgaagg	ggcttcacaa	300
aataattttt	agaaggacat	gagacaaaaat	tagccaggct	tggtggcacg	catctgtagt	360
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tttaaaacca	aaccgnggga	ttngaactta	gggatcaaga	gatccgagga	cttacacttt	540
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<210> 7438

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7438

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tatttcacca	agactaaaat	tacaaagttt	gggtgtgtaa	aggcaagatt	taattgttgg	180
gaaaatttat	ccgagccagc	caccacgaca	aaagccaggc	tgaccaaatc	aatggattc	240
tttacatcct	ccaagtttca	gaagaatcct	gaatatggtt	agccagaaga	tatggtaa	300
ttgaccccaa	acatttgctt	gaaggagtaa	ggtcttctaa	tgagtgaatg	tcaagagatc	360
agcacataag	taatagctta	tttatccttt	aggtcacatc	catctgtgaa	tcaagcagcc	420
ttgcagtcca	catgggcagc	atcttttcca	tggtctcgag	gctcaatgat	caaaggttgt	480
ttaaccagat	cttaaaggtn	ttttaaaagg	cctctncatt	ttttttttgg	gtgggtttaa	540
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<210> 7439

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7439

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aaactagcta	tttttacagg	ccaataaagc	aacatgcaat	ccccctcaac	aaatttaa	180
aatcaggcaa	tactaagaat	gtatatcca	ttaaactaaa	ataaacaagg	ttgaaatgtg	240
gtacagaatt	cactgatgag	cctgtgaact	ccacgtgagg	atgtccagtg	ccttatttat	300
ctcagtaacc	agagtaccca	gcacacaaga	taaaagtggg	tattacctaa	gtggccacta	360
ttttattaat	aatgcacata	acatatgctt	atcattaact	cttaaaaaga	ttattattta	420
actatncagg	aactaccata	cacatttcaa	catacaaggt	tcctatcttt	nttagaatnc	480
ccattaatat	ttggaagaat	tgggaaangt	ttcccanggc	tttctatac	aatcccccca	540
n						541

<210> 7440

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7440

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ctgtggtgga	caactgagtt	gatgtggctg	atccaggctg	tctcccaggt	tgtctcaggg	120
agcatcagtt	gtactagggg	gtgggctgtt	gccctggcac	ggctggatga	acacttgac	180
cagggatggc	catcagaaga	gctgcaggcc	agttttgagc	ccatgcagct	gcccctggct	240
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acagctcagg	cccaagggtg	cagtcttgca	tgttgagggt	tccagccgct	gctctagcac	360
aggctggtcc	aaaagatcat	ggtgtcataa	ttctccagca	tgagctctgc	tgggtcctcg	420
nctgactggc	attcggncta	agggaaatgt	gtcccatacna	cgtttntgag	cttaactgca	480
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<210> 7441

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7441

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ctaaagcctg	agaggcgagg	atgaagtata	aaaatactat	ttacaaaggg	aaggaggtat	180
ctgttgctta	accgtagaca	cccccatccc	cacacccctt	ttgatcaaaa	aaaaaaaaaa	240
aaaaaaaaaa	aaaggcccct	gggaatcaat	ttaagtatag	aactagccct	cctntanagg	300
ggcccacaaa	cctnaacatg	gaatagggaag	ctccgagatt	aactgaggaa	gagactgaat	360
ggatagcacc	cgtgggtcct	ggcaggggaa	nggccctctc	ttactctgga	gcagctggcg	420
cccgccaagc	cttggtttca	tanggcccat	gtaaccctgg	cattttcctt	tnggncctgn	480
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<210> 7442

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7442

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ttccattttc	ttaaggagtg	agttcacata	gcaagctctc	tgcccacaca	cccttggagc	180
tcagttaatg	cttctctctc	cagtcctcca	ttctctccct	ggggccactt	tctcagagat	240
gccttatttc	atgaacaaag	ctgaataccc	taaaagcgac	tcctaattgt	tcctctggga	300
caggaaacat	ctcttggcct	caataagaaa	tctctcatca	tgttccaagt	gaattttcgt	360
atgttagcaa	gtttggacta	accaatctcc	ttcacagaat	gcctaggatg	aaatggcggg	420
gcaagcatgt	gtgggtagga	gctctgcact	cattccagat	tccataggaa	ccaccttaaa	480
angactcttc	tctgaagttg	gcctggtggt	atnggggang	gcagcnttgc	agttaatggc	540
tnttccttaa						550

<210> 7443

<211> 553

<212> DNA  
<213> Homo sapiens

<400> 7443

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taaaaaggaa	ctagaaaatt	atacatgttt	aaagtatgtg	cttttttccc	accaccttta	120
agttaatggc	tagtaccac	attttaagta	atgaaatact	taatgtgatg	acccattttc	180
agataatttc	atgactgtat	cttcacttta	atttttaaag	cagttgacca	tgaatttcag	240
tttcagttat	tctctgtttt	tatcaattcc	gtaatgatct	gcagaatctt	gtcattttca	300
agggacatct	ttggattttc	aagctttttt	cttaaaactg	aatcaatgag	aactctcagc	360
tgcttgaaaa	tgacagctat	ctttacaggg	gcctgaaaat	agatccagcc	atcaatagaa	420
agaagacgtt	ctcgggctga	acttctatat	caccaccaa	aagtaaaact	ggaaaaaggg	480
gttattaagg	gtagttttct	tcaaatacct	ttggcatacc	ttaatcttct	ccgggattaa	540
gaancnttcn	tga					553

<210> 7444

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7444

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aaaattttta	agaaaacaaa	attttttcca	gaatattaca	ttacaaaaat	caatgaataa	180
atgaactaca	ctgttaacttt	aatacttatt	ccatatgaaa	aaccaaactg	tttctggcaa	240
tttgattgat	ctcttgagag	tctgcagtgc	attcattcca	tggttaaaac	cgtgtgtagg	300
cattgcgttg	ctgctgctgc	tgtaatggct	gctgggcttg	ctgctgttgt	aagcgaattt	360
gctgggaata	agggctcttc	agggatttta	caaatatggt	agttctggga	ccagtcttcc	420
atactatacc	attggcatct	ttcacagaag	attccactgn	aatgggtggg	ggtncagga	480
tagccaaggt	caaccgaaat	tgagtcctga	agnatcatta	tganggtcaa	cccttgnttc	540
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<210> 7445

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7445

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ctggactctc	gccggtaggg	agggctgggc	tgacagtgcc	acgagtggga	gaacaggggt	180
cagggcagga	cacaggggtg	ggatcagggc	tgggcacagg	atcaggggtct	gggctgggca	240
caggatcaag	gtctgggctg	ggcacaaggt	caggaccagc	gtcgtgcccc	gcctttgggt	300
cagaagattc	cacaggagta	gggctggggg	tggatctgga	gccggggaag	ggtttggagc	360
tgggatccgg	cagagtgcc	ggcccanaac	cagggtcagg	gttgcggcc	aaactggtgc	420
cagggctgaa	gccaagcca	gaaccagca	cagaaaccag	atnaggaccc	cagaanggaa	480
aacttgcccg	ggcttatnat	ggattcaagg	cttaaggcaa	gncccaaggc	caanccnggg	540
gcctttttt						549

<210> 7446  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 7446  
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acatcccatt gcttttaaga gcacatatat tacaaataaa ggaactccac aaacttttaa 120  
gattagtatt tatcaacgct tttgtncaca tacncaaata ttttaataata anggtatctg 180  
aaatgttatt catatatatt tagtactgtc atagtattaa ctaaaaagga tcttttaaat 240  
ttggtaaaaa ccgtatatatt tacaatcttt tatttacatc tgaaatatgc ttaaattgta 300  
caaaaacatt cactttaacc tttaaaatat gngtactagg actgggggtac tgaccataca 360  
ataactgaca gcaaaccttag ggtttgcatc tgagctacac attcactgga atttcatggc 420  
aaatattcaa cctggcctga tcaacactgg tcaaaggaaa aaaaaatttt nccaaatgng 480  
ccaaattcaa anggtggcaa aaatcttgaa gcttgccgng ggaaaccaa anttttancc 540  
ccctggaaac ct 552

<210> 7447  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 7447  
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ttcagganag cagacatgng cctccacaca gttctgaagt tctgggggct ccacattgtc 120  
agctgggttg ggggtctccca tgtgaggagg gctgatggca ctgcaggtt tttgcctcat 180  
ctatgcncaa aggtcaaaaa aatttcttcg gcatttggga cctcngntt ctgtagctcc 240  
accagtcgct gcacagcctc aggcaagtcc cactcccaa ggcgacgatt atctcgagtc 300  
cgaatgttca ctgttctctt actttgctct ttctggccaa ccacaaactg aaaattgtag 360  
tgggcaagct gggcccggcg gattctccgg ctgaggggtc aatccaaaag tctgcatcca 420  
ggtcactgac caagtccttg agccccgaag cttttgntgg gccctttttg gnggaatncc 480  
tttggttact tcccacaggg gttgaccncc acctggaacg gggaaagccc cagggggcat 540  
ttcccccc 549

<210> 7448  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 7448  
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aacaggggga cgggaccttg gcctttttga gggatgggtg ttttttttcc ttttgcctatc 180  
aggaaataaa actaaaaatg gtgtcattga gtaaaaacaa aacaaatggg gagaaaaaaa 240  
ttctccgggt aaacggcatt tctgggtatt tatatatatt ttctcttaaa ctgtcacctt 300  
ttctctacat tttaaaagac acccgagatt gctctcaata agcacatcac ttaacacttg 360  
gccagttggg tggggtgcc tgttctgaaa tggaagtggg gattgggggtt gggggacagg 420

00924069462960



ggaaaaaaag cttccaacct gtagcctntg gncccaaggg aatgngcctt tccaatcctg 480  
cggggggactt ccttaangac tgaggggcttt nttanaaacn 520

<210> 7449  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 7449  
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nnnnnnnnnnnn n 551

<210> 7450  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 7450  
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ttcccgcaga actaatgaag taggtatctt cagtttttcg aggaccaggt ctcaaaaact 180  
caggcttagt tgtccgtcta tcatagaagt cccctgggggt ttttccactt actgacctgg 240  
ccagaccaca gctaactggt ttgtcttttc ccaaaaagtc agaagagaca gacaaacttt 300  
tcattacttc atctaaaaga ttctcttgac ttgaggactt tatctgtact gaggtaagct 360  
tattgctttc ttccaaaaac tgttgtagaa gtaacaactt cacttccagg ggaaccagtt 420  
ttgatcttgn gatgtcgact cttcaggggt tcaaaaattt tgggctggaa ccttgggctt 480  
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ggna 544

<210> 7451  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 7451  
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gaagagcaca gggaacaggc agccaggacc agcctggccc attccaggcc agctgagctg 120  
aaatgctgat tctgtccagg gggctgctgt atgtgtagac tgggtggcagt cttggggact 180  
gaggcctctt ggagagaagg gaagactgtc ggctcagaag tccatggagc tgtggggccag 240  
gtagtccttg cgaccgatgt tgctgacctg cttgggtctgc atagcctcga gtttggggca 300

gtcagtgatc	cgatgaccca	ggcccccgca	gaaggcacag	ccgcgctctc	ctccaatgtc	360
cagcatggac	tcatccccgc	aatgcagcac	ctgcagcacg	gcggaccttc	tgcttggctt	420
ctagcaacan	cgcttttgag	gtccatcagc	acttgactca	tcacaccttt	tgntgattaa	480
aggtaatggc	cnatgcctgn	gtttccgacg	cccgggtgcn	gcaatccggg	gacatagttt	540
taatctc						547

<210> 7452  
 <211> 577  
 <212> DNA  
 <213> Homo sapiens

<400> 7452						
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caatcaagct	taaattacag	agaagccttc	acagttcctt	taaggcagac	tgagacattc	180
tttacacttc	cttcagaaaa	aacaatcaag	agacaggaaa	gaagggtgctt	aaaatgagag	240
tacgttaaac	aattaacttg	cgtcccccg	ttcttcatgg	cagaaattgg	tottattggt	300
caaactctag	ttttctcggt	ctgtattctg	aaagggtttt	ctttaaccat	ctggagtaat	360
ttgcgattac	tggattaact	ttgctagtta	aataaaacca	aaccaaacc	agatttggt	420
ggggtggtgg	gggagaagt	ccttttatg	cctctcctct	ggacataaca	aaggcgatgg	480
tgaattctga	atgggtgctga	gttcccactt	ccccggggga	aggagagcct	aatatgggcc	540
anggtcttta	cttcttcact	ttgggaaaag	ncattct			577

<210> 7453  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 7453						
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acacaacccc	aaacactcct	aaaanggatc	ttgttaacat	tcaaaaagtct	cccattnntt	120
tctcagtata	ttaaatacaa	nggaaaaaaa	aatnttaaaa	aaaaaaaaatc	aataggttta	180
gttcacccca	ggaaaagcac	ctttacaaca	ggaaactaaa	ttgtcaggaa	tntgacccaa	240
gacncaaagc	agcagataan	attcccgaca	gaananagng	actcccactg	gaacataaat	300
agatccccc	aaagtntaca	tatttcacat	gagng			335

<210> 7454  
 <211> 569  
 <212> DNA  
 <213> Homo sapiens

<400> 7454						
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tggcaaccag	aaaagtgtt	actccaggtg	catagattcg	ggaaaccatg	caacttgagc	120
caaaatgaaa	ccaattagag	gcttagtaaa	tgggttccag	ccaccccagg	aaacttaacc	180
atccacgagt	cagttcagcc	gaggtagaac	ctcagtgacg	gaatttagca	tgatatagat	240
tgctacttta	cagaattaat	ccagacctgt	cgccaggggt	gtggtcttga	ggacgtgaaa	300
tgtatccgcc	caacacagcc	accaggtgc	tgggttcaaa	tctcgataaa	ctacataggg	360

gtatataggt	ggggaacgtt	agcaccattg	actcttaagg	gtctcttgcc	actgccatgg	420
angtggggac	ataaggagag	gactagaagc	tgggccnaaa	gggacnagac	ngagaaagaa	480
ccgaaatcct	tcnttaacct	ggcttcaaaa	nctggantgg	aaagtggccg	cttgataggg	540
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<210> 7455

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7455

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cacagcaacc	tccgtctcct	gtgotcaaac	catcccgcc	cctcgacctc	ctgagtggct	120
ggaaccacag	gcatgtgcc	ccacccccag	ctgatttttg	tatttttttg	gtagagacag	180
gatttcacca	tgttgccag	gctgggtctg	aactcctgga	cttgagtgat	ccacccacct	240
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tgctgcatga	gcagccatcg	tcctccttgt	gtgaacgccg	gacatggctg	tcatgggcag	420
catgggatgc	aaaagattta	ccacagggtac	ttgcatttga	agggttntn	cccanaatgc	480
ttgcctgatg	tgtgtncga	atatgctgga	agcttggaac	cttttagtcc	aatnncaca	540
ctgggatggg	ctggcttcca	aagnggac				568

<210> 7456

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7456

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cgcagggctc	attctgcatg	gatctgtgtt	tcaggatgct	gcaaggacaa	ctctgcgggc	120
aggaaggccc	cttgacccaa	cgctgtagca	taggtcctgc	tctgtggatg	gggaaagcca	180
gggggcacat	acgtcccat	gccgccccct	ccaaagactc	ctcgctgggtg	ctgaggcagg	240
gagtggtaat	cttccagggt	atcatactgg	gacacaacag	tcacactgct	ctggcgcttg	300
ccgtgtgggt	ggtactggta	cagcacactg	gggtccctct	ccacgttctg	ggtatgatgg	360
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gtcgttcac	ttttgganaa	ncttactttt	tggggtaanc	ttaaaaatct	tgccggatcn	540
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<210> 7457

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7457

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aagccctana	tccaactgaa	tttgcccttg	ctggaattct	gctgtttcat	gagccagcag	120
ganatttgca	agtncaat	cncagttttt	aaagtagcac	cttcaatata	tganagctat	180

ataaatttaa	aaataataaa	aaaccaacta	atacctattc	tgcttagnga	cctgtcccta	240
agngncatac	attcttttct	cctttgaata	tgataccaag	gaagaagaat	caagcaaaag	300
gggaaagtaa	ttaaaaaaa	atntntntca	aagcctgttt	ggtttcatgt	ttcagggtct	360
cctggccaaa	attcccaaaa	gctgtgaaga	cngaaaagtg	gngaactatt	tcagaaaagt	420
gcancaggtt	tctgaaggcg	cccctacaat	ggacttaaaa	cttggattac	tttccaagan	480
gaaaggattt	ttttccatcc	caattggatg	aatggngttt	tttaagaaaa	aaaggatttt	540
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<210> 7458

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7458

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 7459

<211> 392

<212> DNA

<213> Homo sapiens

<400> 7459

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gtgcatgtgt	gtgtgtgtgg	gggggtggg	gatggggtag	gtatgtgctt	ttggctcatg	180
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gaaggaagag	aatgaaggtg	agtccccgcc	gttgcaaac	ttcaccaaac	cacgcggccc	300
anttttcgtg	agtaccctctg	tgtcccanan	aggaggaccc	ancgtcctcg	gctctgccgn	360
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<210> 7460

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7460

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atctctgtag	atatttcact	tttgtgtcat	caaaaacaca	gtttgtaaaa	atattttcaa	180

008270" 69462960

acttttttta	aacttcaaca	gtaatcaaag	ttatctgact	gcaagtaaca	tcaaaatgct	240
agcaaataga	ccattttaat	cagttttatt	gattcatgct	tccagttctt	attcagttta	300
aaacaaggca	cattaaatac	atcctcttat	tgctctataa	atgcatgcag	ctcattctgt	360
gtatcaaaaag	taataaataa	tggccataaa	acaccaagac	agttataaaa	atgacaaccc	420
agcctcaaac	atagtattta	acagtccagt	ctagaacaat	aaccaacat	gatncataaa	480
agtgtcccat	ntgaaaacat	gocgnnggga	tatccctcta	gcactgggct	tacacttgct	540
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<210> 7461

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7461

ggaggggaaag	gatgcacttt	catgtttaac	aaaataaatt	aaatatacgg	ggcttcagct	60
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gtctggcctg	gacgggtgt	ggtcatcagc	atggctgaaa	gaccaggcgg	gtcccgggcc	180
ccaggagaga	ccacagtccc	tgcaaccacg	tcttcttcc	atcattatta	atattatctt	240
catttcttaa	atataaatac	caaggcccct	tctctgtgtc	agggggagaa	tgcatgtggg	300
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ggccagggga	cagaggcggg	gatggaggcg	gggactgagg	cggggacaga	ggcggccana	480
gttgggggaa	tgacggtgga	ncagggaaag	ncctcataa	ctatgagcct	acggggacacg	540
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<210> 7462

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7462

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gtgtagaaat	atgattggac	aagaagggtg	tgatctaata	gtaatagact	gagaggggaa	180
accagcaag	gctgtctaga	ttcttcttgg	cctctctgtg	caggattcct	tccttctggg	240
cacggggttg	gacctctct	ggaatgggtg	tcttacgaca	gtcaaacacg	gtaggtcaga	300
tcatttcttt	ccaaccagtt	tttacacaga	aagggggaatg	gggagtgaga	ggactatttt	360
taggttttat	ggctggcttt	gggtaaaacc	ggttctggtt	tctgatgacc	tgcccttggg	420
aagagggtt	ctagtttcta	tgggtagcct	tgggggagaa	tgaaaagcca	gaaacaagag	480
ggcaggaaaa	ggtcagagag	aaactttgct	tctggggctg	cttctgaggc	ttccttttaa	540
gntatcagaa	atgatcaggg	gcattctggc	tccaggnaag	gctcc		585

<210> 7463

<211> 435

<212> DNA

<213> Homo sapiens

<400> 7463

009270.69462950

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tttaggct	gt	gtcccaagat	tcagaagagc	tggagaggga	gttcctttga	acttccattg	180
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aaggctccat	tt	tctgcggtt	gtccgcctgg	acgggcccc	atctcagngc	cttccatccc	360
tcagtctggc	cg	gtttggtta	tnagnccgga	tgcccanacc	cgngtggagg	cacacgcatt	420
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<210> 7464

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7464

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actgggatgg	aagcagatga	accacccaat	caaacagtac	atgattactc	ggtttccaga	120
aatctggata	ccagaaaaac	tcagtaggaa	acatcaggat	cacctagcca	gaggttcctt	180
gtgattcttt	gcttctctct	ctcctcttcc	tcctccctgc	taaggaactt	ctccaggggt	240
acaaatgttc	aggatgggag	aaggggaagt	caggtccctt	atctctaggg	caaagaggag	300
tgctgtgaca	ccacacccca	gagacaacaa	gatgatgtgg	aggcacaggc	ctgctcaata	360
aatagttccc	agaagtctcc	acagtgggat	taatgggccc	agggacgctg	aactgcagga	420
gccaccttcc	cgaggccagg	ctgtggcctg	ctcgctacgt	gttgcacacc	agcacatctg	480
cnaagggtcc	aggaggatct	tgtgaanata	cacggcccaa	ccaggtaggt	ggtgaaaggc	540
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<210> 7465

<211> 596

<212> DNA

<213> Homo sapiens

<400> 7465

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ctgggactac	aggaatgtgc	caccacgccc	ggctaattgt	tgtattctta	gaagagatgg	180
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cggcctccca	aattgctggg	attatagggt	taagccactc	tgcccagcca	aaaagttaat	300
agaaatctta	atcaaaatat	aaatatacat	tcataactgc	catctacaat	attctgtttt	360
ggtcctatat	cttaatttgc	ctttatccac	tttattattc	taattgtcaa	ctgattttta	420
taaaactgat	acatctttac	agttgatgca	catattagca	cattcacaac	ataaaaacaa	480
aaattttagan	gtnaaaagttt	gggaagtatt	aaggtaagta	cccatgttca	aaagttaacc	540
ccgacctatn	tgaaaagtaa	ctaagttcca	aacaatggcc	gnntttnttt	nnaana	596

<210> 7466

<211> 593

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 7466

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tataagcacc	tgccaccatg	cccaggtaat	ttttgcatgt	ttagtagaga	tggggtttca	180
ccatgtttggc	caggctgggc	tcaaactctt	gacctcaggt	gatttgcccg	ccttggcctc	240
tgaaaagtgc	tgggattaca	ggcgtgagca	accgcgcca	gccctatatt	tttgtatatt	300
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tttagattaa	aaaatattta	ttcatggcaa	tctggaacat	aattactgna	tcttaagttt	540
cnctggatgn	atatanaang	nttaaggcca	attttatcaa	actagtingag	tac	593

<210> 7467

<211> 591

<212> DNA

<213> Homo sapiens

<400> 7467

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gaaaaataca	gctaaaaaag	gaggagtctg	ttgagtattt	aatttcagat	ctacttgact	180
ccttgttgaa	tggctttaag	ttagcatata	gtgagtgaga	gtagagtcc	caagtataat	240
agctgatgcc	tcagggctcc	atttaaaaaac	aaaacaaaaa	caaaaccatt	tctccctctg	300
cacaagggaa	gcctatccta	tttttttttt	cctttgcgaa	aacagaagcc	aagtttctct	360
tctcaaattg	ttcagcattc	ccaatcaaaa	agtgggtgtg	ggtaacctag	gtattgtgct	420
tgttgagcca	tttaattttc	ctcaccttcc	gattcggatt	cttcttctgc	attttgnaac	480
cactcacaaa	ttcttcatct	ggncagaaga	aacacttttg	cctttacaca	tgggcttcct	540
tataccattt	aanaatgnnt	ccttggttaa	aacataagtt	tttaaagana	c	591

<210> 7468

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7468

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actttccact	gagcatagaa	agtttcagga	taacaagaaa	cttgtttttt	gcoctccatga	180
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aaatgctaga	gtgacaaatt	tactttatga	aatttaaaca	cagcattcat	cctcgggaag	300
ctgcatatac	attatggtag	tagaaccaga	ttaggtacat	ttcagcgttg	aaaagatttt	360
gtctaaaaat	gaaaaggcag	ctttcttaaa	gaccagagtt	atagagtcac	tcttgnattt	420
ttcatcttgn	tttagtggcc	aaagctcaac	ttggtttaat	nggaccaaag	ctcagtaact	480
cactcagatt	agaactataa	ttctgtgaag	ngtcaggacc	ccngaaagtc	ctcctgggac	540
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<210> 7469

<211> 586

09629469.072800

<212> DNA  
<213> Homo sapiens

<400> 7469

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cccaggctcc	aggccagtgc	ccccatcaag	atcagacgta	aggcatcttc	ccaccgtcgc	360
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atagggcaca	agcactttct	gggaccatgt	gaccagatc	ttctttinggc	agttcccact	540
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<210> 7470

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7470

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aggaccagta	tttatagagc	cccaaacaga	attcccaatg	ctggtgtgca	ggttggaatg	180
cgtattgtta	cgagctctgt	ttgggttgctg	gtgttgctgc	tgctgctgct	gctgcttttg	240
catttgccctg	gcctcttcc	gctggatctc	cagaagagat	ttcgttggtac	ctgaagggtt	300
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gactgnttgg	ccccacgttg	gaanaaaaaa	ggaactttat	ntggggccac	ttgtggtgct	540
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<210> 7471

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7471

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tactgtattg	cactttttggc	cactttttg	tctttagaag	tcaagaggng	ttttttgttg	120
ttgttggttt	gcttggtttg	ttttgagatg	gagtcctcgt	ctgtcaccga	ggctgaagtg	180
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acaaagtggc	nctacctntn	ttncan				507

09529459-072800



<210> 7472  
<211> 540  
<212> DNA  
<213> Homo sapiens

<400> 7472  
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tgggtcgtaa cagcagttct attcccccg gaggaaggct cttgggcgtt ggagagtccc 180  
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<210> 7473  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 7473  
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agaagacagg aaaacaccag taatggtgaa ggtcttgaga aaaggacagg acccgagat 180  
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caatgacaac cagaacttat tttttttgan atggggtctc gttctgtcgc ccaggctgga 360  
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tacgtcagtg tcctgagtag ctggaactac aggcatgcac caccacactt ggctcatttt 480  
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ggcattacag gttt 554

<210> 7474  
<211> 540  
<212> DNA  
<213> Homo sapiens

<400> 7474  
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acaatcttct ttatctgtca ttttatttct gggctctttt ggctcttcct ttaatatgtc 180  
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ttgtgaccat atctattttc attaagatat aatttagtat tcatatctgt gaagatttat 300  
ctttttgttc aaattatttc ccaagttcag tcagttctct tctcatatat gctttagtagt 360  
ttttcatttt tattctgagt ttttgaattt ctgatctctg gtgttctttt atatccacaa 420  
ttatttattt tcaaattcat gttgaaagtg ttttaagttac agtttactgg ttcattgggcc 480  
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<210> 7475  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 7475  
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aaaagcagca ggtgtgcagc agctggctga caagctgctg tccaagctgg ttcacacact 360  
gtccaatcag ttctttccgt aattcaaaagt cttcttcattg atcattggct acccctgtat 420  
gaatgaggtc tcgtagaaac ctcatgacac tacaattggg attcccgtgg nccaagggnan 480  
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<210> 7476  
<211> 523  
<212> DNA  
<213> Homo sapiens

<400> 7476  
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aggcagggtg atcacttgag gtcaggagtt cgagaccagt ctagccaaca tgggtgaaacc 180  
ctgtgtctac taaaaatacc aaaaaaaaact tagccgggtg tgggtggcggg cacctgtaat 240  
cccagctact ctggaggctg aggcaagaga atcgccctgaa cctggggagat ggagggttga 300  
gtgagcagag attnggccac tacactccag cctgggcaac agagcaaagc ctcaaacaaa 360  
acgaaaacga aacaaaacaa atatatgtact tcatttaacc ctttcaagct tggagcctta 420  
nactaactga gaggggtanac tcaaagccgg ttggctcact cccaaatnca caggacantt 480  
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<210> 7477  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 7477  
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aactacaaaa atatctggct ctcgagtgtg ggcagctcag tgtgggacct ggtctgagtc 120  
atgacttggg ctgccctgca ggccagaggc ccgggagctt tccggccact cccagagag 180  
gtccgtggcg ctgaggggtg gagaagtgcc ttggctgctt ccacagcgtg aaggccaagg 240  
ctgagggtgga gctgggctgg agtggttcca gagaaggctt catcgaggcc cttcaaggct 300  
gatggcagag ccagggtagg gagacgcctg gatgtggctg ccctggctca actggctcct 360  
ggaccaaggc cctaaccac cagttttttt ctccagaacc cctgctggct ctcccatagc 420  
caagtgggtg gagcanancc ctctgagggn tcccagngca nacagacctt caccacaacnc 480  
an 482

09629469.072800

<210> 7478  
<211> 535  
<212> DNA  
<213> Homo sapiens

<400> 7478  
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gagaagcaag gctgagggtca ctggaaaggc ttagaatgaa gctgcccttg cctgttcctc 180  
ctgagaaccc agagcggcag tgggccaggg cacaagcat aatgatctct catgaggatt 240  
cctatctgaa cacatcagaa gtcctatgaa catagatagt tctgttttag aatataaatg 300  
gtagtgactt cctgcgctcc tgaggcgggg caaaataatc cataaacaca taatccttct 360  
gggcaataat gtttctggac tcgccagcag agggctctag gaacagaggt gggggtagaa 420  
gtcggggaga aaaaagggtc tagagatggc atgtcttcag gggaactttg agaaatgncc 480  
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<210> 7479  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 7479  
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attagaataa ctggtggagt cacagacata tttctagctc cattaggtca aaggaaagga 120  
aagaggacaa gggtagaaag gagacaagcc ctctaagaaa ctgtccattc agtctgtctg 180  
cagtcaatat gaagagatag cctttggagc tacagaaaat attacattga agtggattat 240  
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accaagagca cagatgtgcc cagcagcaat atgacagcaa atgtctctat ggcttcggga 420  
tgaaaatgtc cacacacttt aagacccgag aagaaatggg gagtgtctca cacccaanga 480  
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anccactggg ctnttcca 558

<210> 7480  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 7480  
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gggccagcag taccatcagc cctggccctt aggccagccc agtcacaggg ctctgagtgt 180  
ggaggctgcg tagcaccagg aagcggctct gctgagggtca aggggcccc gcacagtgtg 240  
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taggtggggc acacggaggg aaaaattata cgccttcagc tggcagtcag ggcctcagga 360  
tgccctgaag cagctcagcc tgggcagggc ctactgagc tgtgctagga gtggttttct 420  
tgaggctgaa gttggtccag ttcacagcaa ctttctgacg agtctgcttt gcagaatcca 480

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aacagaacct tttaaagtac ttcacctttn ggcaggctta ttcattttca cccgnncatg 540  
gncntgg 547

<210> 7481

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7481

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aacgggacct aactggctgg gcataatggc tgaaaggctt gtggctggca tggcatggag 180  
ggggccacc actgcttcct gacacaaatg agccacatct agtccagaaa agccttctgt 240  
gcgctggacg agcagtgcaa actccttgct attgagacag taattgtgct gtgagagcag 300  
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gaagtacctc cgaagggatt catctatttc ttctggttta ctggtggcac aaattactac 420  
gatttggctc tcagcccgaa gttagtacag tgtccagttg catcagaaat tcggtctcat 480  
ccgactgact ggctatggct ctcantcctt gaganganag aacctggcaa tggccttacc 540  
aaaatcnccg nggntgg 557

<210> 7482

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7482

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aaggggggct tgccccctcg ccccagctat atacacgaca gccatcctg ctggccgtgg 180  
acaaaagctg ggagctcctg tgcccagtcg ggagccccta cagtccacca gctgcgcggc 240  
cgggtccagg ggcccactgt ggtgccagcg agtttctcaa aaccaggggc ccagccccag 300  
ctgggccccct gccaaagccc aggcctgtgt gctgggatgg agcctccaca ctgaggctgg 360  
taaaagctga actcaacagc agcaatgaga gtgctgggtg ggcttggggg gatgaggagc 420  
aggccccacc cagagccttc tctgaaggag gggacgctgn gccctttctt tctgntgcc 480  
nantggccta acgggttccg cgccggttga ggctaagtaa gcanggattg ggggtggcaa 540  
aaagaat 547

<210> 7483

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7483

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gttaccacca cattttgccc aagttctaag gaaagttctg aaacttagtg gtggtgtgtt 180  
tgtactcagc aagctccaga cagtctgagt tgctcattcc atgaacagaa gcttgaaaat 240  
gcccttacag ttgagatata aacgagggaag gaggtgaagc tttcaggaag ccagagagcc 300

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cctgccggtc	aggtttcctg	aggaaggcag	gggtgctcta	tgctcatcag	tcattcaagc	360
ttctcaggaa	atgtgcccat	catgggaaca	gcagctatct	tccaagctta	aaaattatga	420
atcccaggaa	gttaaagccc	aaccagccaa	ccaccttnac	atccttctca	tctagtagag	480
tcattcaaaa	ccgcaagngg	ngcttttgag	gcancttagg	aaggcnttng	ggggctttct	540
aaaggggan						549

<210> 7484  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 7484						60
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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nnnnnnnnnn	nnnn					554

<210> 7485  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 7485						60
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tttcaaagca	accaccacga	caaaggaagc	atctaattag	tccgttttct	tctgatccaa	240
gaatgctgaa	cattttactgt	cccatctgta	gttgatcag	cagtgtaatg	aacacagttt	300
atattactta	actattcttt	gaactccaag	aactgttgaa	gtcttttctg	atgtttctgca	360
gatgcttgca	cagcattcag	atgttcacca	aatgtagtag	ttattcgata	gatggcagtt	420
ttcagtgatg	ctctgaatgc	aaatcttaat	gttttatatg	aagtgtccac	aaggcttcct	480
gaaatccggg	gtggtttact	ggaagcatga	ggaagcttaa	aggacttgnc	gactggctnt	540
tgcagtggca	acaaagtntt	aagggttagct	ggnaanggcc	gctggacact	tccaaattat	555
ccnctgnaaa	ggagc					

<210> 7486  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<400> 7486						60
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0032/0" 69462960

acttggcagt	gcctggcctt	gtgcacccac	atggtttttg	cctgggtccc	agtgaaaatg	180
gtcctcacct	ggctggggaa	catggttctg	agaggcccct	tgatctgccc	tggggacatg	240
tgtggccatg	ctaagggccc	tggccacctt	cacgtgactg	gccacctctg	ccagggtgca	300
ggcagctcct	agcatggaga	catccttcat	ggaagtgagc	tttcccaccc	acctccatac	360
ccacatttct	cagaaacaga	gttaacaggg	aaccaagagt	caagaagcca	cagggtgtgt	420
aacgtgccta	cagccaaatc	tgtgaccatt	acctgaaaag	caggacaacc	aaaagtaatc	480
aggaaaggga	gaanatgtgg	gctggaatga	nattggacca	ggagaanacn	gaattaaggc	540
cggaaaacng	aaacccccca					559

<210> 7487

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7487

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gttgacaggc	caatcatttt	aaaatatatt	ccaaaatgca	atcatgaaaa	ataaaaaatat	120
gtcattgaat	gagaacttct	ttgtgggcca	tctcccgtca	cactgactga	gaactgactg	180
ttgcaattgc	ttctgaggaa	gtatatgata	ttgggatctg	gcggaacacat	ccctgggagg	240
ggagcgtgtt	gggctgacag	cagaggccca	ggtcctcttg	gctccacagc	cgggtgtggga	300
ggaggtctca	gttcacccag	cacgcttttc	tgtctaacct	ctgctacctt	tattgcttag	360
gtaaaacatg	acttcatttg	gccttggtga	tgcagcagta	tctctttaac	attaagtatg	420
cttctgctcc	tattaatcca	ggacaattaa	agaaagcatc	aagtttgcaa	tactangnct	480
tttaaattct	gnCGaatcaa	agtcttttgc	ttactaaagn	acttaagaaa	gtgaagctat	540
taaaagccct	accag					556

<210> 7488

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7488

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acattaccag	tcaagtatat	acaaaaattga	agtatgccat	tcaagccaga	ttgtgatttt	180
aaaataacaa	acctctaaat	agctaagtaa	tgtacaatgt	gtaaaattcc	aattaaacac	240
aggtataaat	cttatataaa	tattggccct	ataataccga	gcgatattta	caagcaaaca	300
tgatccaaac	agcacatgca	gattcagggt	aagtaaatac	tcggacacga	actgccagtc	360
gcacttggtc	tccacggcaa	cagattatit	cttcacagaa	aggagatcga	agacatgtgg	420
caaatgcacg	tcttgcatit	ctatacacaa	aatgtatttg	gaacccttta	aatgtggggc	480
attanggaca	ggccttttta	tggnatcttg	gaaatcttca	atggctgntg	gaataacctg	540
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<210> 7489

<211> 559

<212> DNA

<213> Homo sapiens



<212> DNA  
<213> Homo sapiens

<400> 7492

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caaagatacc	attactcaga	acaatatata	caaaaatctc	agggaaagga	gaataaaaga	120
acttaaaaga	atacaacttg	aacaggactg	ttttactaaa	atggctttgt	tgcaaaataa	180
taacaaatac	cacagagagc	cctacatgag	aaagccatgt	gccttcaagc	ctgggggatga	240
ggactctagt	tctcaaattc	ttagaacata	gcacatgatt	ctccagggca	gagaggctgg	300
ctggagaatg	aggacctcac	tgctgactct	gcttaacaaa	gtccatgccc	caggcacagg	360
cacacatgga	atgaggccac	caagcaagtc	acacccgccc	ctgttcccat	gaaccccata	420
agagagaagt	gctctctgaa	gtctacagac	ttggcaggga	ccactggacc	atggatagct	480
taaagacagt	antttgnggc	catgacntaa	aacttcagaa	tnitgggccta	cagttccctt	540
ttcnaa						546

<210> 7493  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 7493

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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<210> 7494  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 7494

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aggacaagga	agacaagctc	ctctggccct	aggaacaaaa	cacatttact	ccttcaaaga	180
agcagatgat	ctgaatacco	tctggagact	gaatctgccc	atacagcccc	tggagccaat	240
gggcagacag	tactggcatc	tggcacaaaa	gggaattcag	accagaaca	gaagcagcaa	300
aatattttta	aaatagtaaa	ttgttccttg	actcacaaat	cattgttttt	aagggaagct	360
gcatgcccaa	tataagtact	ggggcttcct	aagagagctg	cataggatta	cacagctgcc	420
tcctgcttaa	tggaggncct	acatcccttt	gacacttaac	ttgggttagga	anaggagcct	480
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<210> 7495

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<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 7495  
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aggcaggcag aggggaggca ggaggccaca gagcagccgg cccacagtg agcacagcaa 180  
gtgtcctggg ccacctcctt gaggcttcag ttcccttcct agcacctgca gtccagctgc 240  
tcagcaagcc ggcagacagg tcctgatccc ttctgtggcc ttctgcatgg tggcttcggg 300  
caacgtggcg ggccctagag gatgctagcc agctctgtgg agtctgtttc tgagcagcca 360  
gagctgctgg cctcgtccct cagtgcctgc agggccttct tattctgccg ccgcctctcc 420  
tcatcaatgg ggtacatttt gaagagcagc agggccagca ggatgagaac tatgggagcc 480  
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ngga 544

<210> 7496  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 7496  
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agatttcgtg ccagagaaaag tctcagcatt tccaccttgg tggctcttat gtcacatcc 180  
tgagagctgct cggatcaga ttctccatgc acaggtcttc ttgacgtcaa gtccctccaga 240  
caccgcatca actcataagt ctgttctgct gagaaaatca cctgtttctg ttccaaaagg 300  
ggcaaggcat ctgtcagcag agtcatccag aaagaccgag gggcaatccg agacgtcatc 360  
aaggacagaa ggagagaagc tgcgtcggca aaacgcttct ccccgtagat acggtggaac 420  
tcgcgatact ttcccaggaa tgcagtcgg tcatgagca tcatggctgg cccaggttg 480  
ncaatgagat ccaaatcaga aaagcagcct ngcttacagn aatcctgang gacctgtctg 540  
acacggcgt 549

<210> 7497  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 7497  
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cgggtggcag ccataatccc caaagatggc cccacccca agattccaaa gaagctagtg 180  
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ggaggccaga agacagcaac ccatagcttt gcacctcct ccatgccccca tggcctgcct 360  
gccagaaaag atgccacctt cacagagcca gtgctgtcgt ctatatcatt ttgtattagt 420  
tgattttata agataaaaagt aatttttaata aagaaaaaat tcaacattga agccttaaac 480  
gttctttggg gtactgggaa agggaaattt ccactttttt ctcccacctt cctgggnatta 540

aangtccggg gggggng

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<210> 7498

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7498

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
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<210> 7499

<211> 395

<212> DNA

<213> Homo sapiens

<400> 7499

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tcaaatgctc	taataaatac	atatataaca	aaagtgaaaa	aagtaactat	agtgagatga	180
ggttcctcca	aaaaaattct	gtcttgtcaa	gcattctagg	agtctgagcc	aaagaaacag	240
cgccattttg	ttcattcctc	cccctgccca	cggacacttc	ctttgagcca	cctctatacc	300
cagctaactc	tggtattccc	tctagggaag	gttctgnatc	agccctggga	ctngccagng	360
cctnagtaaa	cagacggnct	ntgttaaaaa	gntaa			395

<210> 7500

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7500

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cagnaaaaa	tttatcacia	actaaatnca	gtancaaaaag	gaaagaaaga	gcttatgtcc	120
acatttccaa	ggtctttaca	ataagttata	gcgtccaggt	ccaacacagc	atatttgcac	180
acaaagccac	tgatgtgaac	actgaaagga	atctgtcctg	taggtctttc	atcttgattt	240
aataaagttt	gtncagtatc	aaataaatatc	aaaagtctaa	aaaacacaat	gagcttttat	300
gtttataaat	tatngttttt	ataccataaa	aaaagtcaaa	agtgcagttt	aaaaaaaagt	360
ggaagttgtt	attcttgata	aaagctagaa	aatgtcatg	tcccagttaa	aaagcaatct	420
caaggntcat	cccatttcta	aggaanttta	cctggnatnt	aacccttggg	taccatatgc	480
tggaagccaa	anccaccgaa	tgggagcttt	gnacaatnt			519

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<210> 7501  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 7501  
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gaattctttc acaaagaaca gatccacagc caatttcagt cacttgatgat gctgaatcag 180  
caccactgg tagcaaccag gatccttctg tacagtcacg ggcttgagca ggtgccataa 240  
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caaaaaaata agtgcaaaat caacttctaa gctcaagagc tcaaacaagt caaagctttg 360  
gtatatactg gaggttggtt tgggtgataac caaagcctag taagattctc tgctcanggg 420  
gttcgcccc aaaagaaaaa cacctgggtn acaaagctta accccttttt aaataaggna 480  
ctgtccaagg agaccaagnc ntggattccc ttaaccaagg gttatggttc ctaggcanaa 540  
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<210> 7502  
<211> 536  
<212> DNA  
<213> Homo sapiens

<400> 7502  
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tggatgtaat gttcaaagtg ccctccccac ggcgtctccg gcaagccttc tgcggagagg 180  
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gcacggcaaa gatgtgctgc tgcaacttgt tggcctggac gaagactgtg aaacacacgg 360  
ggcatttgaa ggtgcccgcg catgccctcg aactgtgctc aatgagggtga cagaagagct 420  
tggcccgggg aagtcgaaca tctgggtgca caagttacac tcgnggggtga atgccttcct 480  
aaacatgggg gttggcaacc gnggantng atctctntnt tggcttctna aggcatt 536

<210> 7503  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 7503  
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tgctttgtaa aagattggaa gcaggctcct ccagtcacagc ttgggagcta taggattcca 180  
atatatttga aaccagggtc aggtctacat ctactgggtg cataacagat tctcccgtac 240  
cagaatcttc ctcatctgaa ttgttatcgg tagtctggga tacagggttc acttggttcc 300  
tagtggtgaa acttttgctg atgcagggtg gtgctagtgc ctgggtccatc tgggccatgt 360  
atgacttgag attatcaagt gttcctttca gggaagcctc ttcgccagggt tcgtgtgttt 420  
caaaagtcca agcatcatca ctatctaaac attcaaagnc ttcacatcc agatcatcag 480

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aatctgactc attaggcctt ggnccataaaa cttatcaaaa taattangaa aaaaatctgc 540  
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<210> 7504

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7504

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<210> 7505

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7505

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<210> 7506

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7506

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009220 69452960

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aaatattttg	ggaccttaa					559

<210> 7507  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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ngcaaaaana	tccacatcat tgtttggtag cagaggatct cttataaagt tccctaanaa 180
actgagggca	taaaaccaaa caaaataaaa taaggagtga taggctaaag cagtatcttc 240
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caaaactgnc	aatattacaa cgagaaaaac cctaaaaaat ttataaaatg aatgatatta 360
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cagcttccc	cggaactggc acggngtcct gtgtggggga ngggccaac gtgcttgcan 480
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gtaaca	546

<210> 7508  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

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tctagggggg	cctaagcatt tacaccatag caagggccct gggtctcatc tgaaangcag 480
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aataaggatg	550

<210> 7509  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 7509	
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tgggggcgtg	gccggagtgg ggaggggctg tgcccccagc acctgggggt ggctcccacg 180

008240.69462960

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cttgggctgc	agggaccgcg	agggccgtcc	agggaggctg	gacagcgggg	gcctttatct	360
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<210> 7510

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7510

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<210> 7511

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7511

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gcagccgtct	tgttgatgtc	ccctatgtca	tccagagggc	aggagcgggc	agctctctac	180
cttggcaact	ggttcctctc	tctccagctt	catcttttcc	attgtttttt	gtttgtttgc	240
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<210> 7512

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7512

09629469.072800

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 <211> 540  
 <212> DNA  
 <213> Homo sapiens

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acccccanac	caagggatca
aagctactgc	tcaatcgagt
ttgacatcag	ctaccgactt
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tgaccggaag	ccaaacctgt
gcctggtggc	cacagacaag
acacacggat	atccgtgaac
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<210> 7514  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<400> 7514	
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gcagcaggat	cagggacatt
gccaggccga	tcagaaaagc
tggcgagaag	gaggaggcgc
agtcctgggc	tttggtaaat
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taaaagtac	ctcccacagg
ctcgacccat	catccgtgtc
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<210> 7515  
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 <212> DNA  
 <213> Homo sapiens

09629469.072600

<400> 7515

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<210> 7516

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7516

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cacagggctg	gaacacagca	nagatggggg	ggcatagcag	atggggcaaa	ggtcctnctc	420
actggtgggc	anggaagcaa	ctgcttgcc	gggcanatgc	anaggtcaag	tgccccagca	480
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<210> 7517

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7517

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aaaacaaaaa	gtagaaattt	taaactttgt	tatagcttta	aaacattaac	gtctgataca	180
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ccncccccn	ccnccnc					557

<210> 7518

09629469.072600



<211> 546  
<212> DNA  
<213> Homo sapiens

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<210> 7519  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 7519  
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nnnnnnnnnn nnnnnnnn 557

<210> 7520  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 7520  
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tgttgcttgc caagtct

557

<210> 7521

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7521

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<210> 7522

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7522

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<210> 7523

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7523

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<210> 7524  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<400> 7524						
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 <212> DNA  
 <213> Homo sapiens

<400> 7525						
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ttccgtatac	aagtaaaact	aattttgata	ataagaacca	cagcgatcgg	aggcaatctg	180
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aagtttaaat	tacattgtac	agggctaggc	aacctgtttc	ttcccagaca	gccatattaa	300
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ttaggaagta	tactgaagat	gcaagttttt	ttcatctgga	gttctgcctg	accaagaatt	420
aagcctataa	atctatcttg	ccattcaagc	agagagcact	ggacaactga	agcncaaaan	480
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<210> 7526  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 7526						
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caagtcatta	gagtccttgg	attttttaaa	ctcccattta	ctgtgtacca	aatcaatata	180
atcacagaat	caaagtcact	tcttttatat	tgaactcttc	gcatttacac	gaatccacac	240

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atagagaagc	tggtccaaga	ccccccaaca	ccattagtgt	ctgcagccca	ccaggaaggc	300
accatggact	ttgtggagag	aaagatgctt	tgggggttca	atgggtcagt	atcttgggca	360
ggaagcacag	ggtgactccc	gtcttgtgtg	cgtgcgcaca	gccaccaaca	cacactctca	420
ggactttccc	gtttcacata	cagggaactt	ttaaggcaag	aggagaaaat	gctaggaagt	480
aaccggggga	tcagaactcc	tccacctttn	aggttccacc	agtcacattt	cccagttccg	540
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<210> 7527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7527

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gcccagcacc	cggttctcga	ccacagccgc	acctcggagc	tctgagcatt	tcctcctctg	180
caagactgaa	atacttctat	tcagtcttga	atagaacagt	taagagtagc	atgcagggtca	240
cagggtcttc	ccaggaggga	aggaggctgc	agtccaaaag	aaggggaggt	ggtcactgct	300
gtccgcctcc	cacaggggct	tggagagaag	tccaaaggct	caagagagta	gatggctatg	360
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ccggcgcgcc	ctctagtggc	ggaagcaacc	cctgcagcca	agggtccccg	atcctggaag	480
caactgaggc	acagagagac	tgcgacgccc	ccccaggccc	acctggttcc	gaagcgatag	540
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<210> 7528

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7528

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ctgctgggca	tcccactatg	ctgattccta	ctctaaaaga	cacttacagc	agaaagcatt	180
cacccatgac	cattatgaag	gaaatattct	gtccctcact	caccctctgg	aagctaatat	240
ggagcagcag	tactctatc	cagagccaca	tgttcacagt	tctctagcaa	gcaggtcaca	300
ccccgtgggt	cccctattcc	ccgtgaccct	tgttgatcca	tcctcttcc	gctcagttgc	360
tcccctgctc	acctggactg	cgggaggcat	gggtgcgccc	actgaggcca	tgctgaggag	420
ctgggatgga	atgcaggaca	gggagagagg	ggagactgag	ctgagaggga	gcactggatc	480
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<210> 7529

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7529

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ctgttttttaa	gtgattactt	caaagtgtgat	ttgaagcatt	gtttggcctg	aagctttaag	120
accagtttct	taagcttttc	cctgagtttc	agcagcttac	ggtttcagtg	aataagcaga	180
gcgcttggtt	ttgaaatgtc	tgttgtttgt	ttgaaaatct	gaatgtgtct	ttcaaaggct	240
gctgtgattt	ctttggataa	aatcagattt	cgtatccctt	agagagcttc	cactcctgct	300
tcacctttcc	aaaaactaga	cctaaggtag	aagccacctc	gacagctcaa	agccagagtt	360
agaacagtca	tactgaatag	atncaatagt	ttatctggtg	cgtatttgga	gaaaggcatg	420
acaatcaata	cgaggcagcg	cagctcggag	tcacaggccc	gactcggttt	gaggctccgc	480
ggaccataat	tagctatcac	atcaaacagg	ttctgnagcc	cctcttggct	tttttcataa	540
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<210> 7530

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7530

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 7531

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7531

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gtctgtgttg	cttgggagcc	caacctacaa	cccaaagggtg	ggggctgggc	tganactgcc	180
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ggagctcagc	cccaggagcc	tgctcttgcc	tctcacatcc	tctgcttccc	tggccagcat	360
caagctcaca	gcatccagag	tcgaatcaca	gcagacaaga	cccttcatgg	ccaccaaccc	420
ggggaagaag	ggataaagaa	tgtcccanan	ggtcctggat	tcacagcana	tgggtccaaag	480
gacccttgaa	acacccttga	acaattttcc	aangngcttac	tggaaaaagg	ggtggtgaaa	540
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<210> 7532

<211> 573

<212> DNA

<213> Homo sapiens

009270"69462960

<400> 7532

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aactaatagc	aaaatgtgta	aatacacgga	gtaaaataca	attctccttg	tacaagtga	180
atgaagtcta	cattaccagt	tcggatattt	ccatttttga	aaggagaact	gatagaagag	240
gctgggatga	ttggaagtgg	ccacaggaaa	tctttgtgga	gtctcttcag	ggctattaca	300
aagttgtcta	cccgggcggc	tcgggtaccg	ttccttgcat	agccaactaa	ttagttcaaa	360
gcccagctgg	gctgcaaagc	agccaaggtc	ctttaacctc	acatcttcta	agangcgccg	420
agcatgtctc	cagagcatca	tgtcaatata	catggtctca	gcacagtcac	tggcttttgc	480
tccatctttt	tccaaaggga	ccagatggca	tacttagggg	ttctggaaac	cgaattactg	540
gcaggacatt	ttagctgact	gggataactg	agc			573

<210> 7533

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7533

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ttacgatgca	gcaaatacaa	gacctctttc	tacaaagatt	agcacaacca	acaaattagg	180
ggatatagca	aaacagagcc	aaaaacggta	agaaatcaat	taagtatgtt	acagcttaac	240
cctttacctc	aatagtttta	aaaaaataag	caaagcctcc	caatcccaaa	caatacgaat	300
acatcttcat	caccaattcg	tacttgtatt	tcttattctt	gaggtttagat	tctaaaccct	360
aaagatatcc	aaactagtat	tagatctact	tatctatagc	cagagacggc	ttctatcaat	420
gntgccttag	cagccaaggg	tattaaaang	cttttctang	canggcgccg	gtggcctnacg	480
cctgnaatnc	caactggta					499

<210> 7534

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7534

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ggctgccctt	atgggactga	aagagaaagc	tgctgggctc	tgtgtgactg	gaaaccaggg	180
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ctcanaagtg	ggagcaggta	cacagaagga	gctcagggca	tgcttggggc	atctccaaag	300
ctctgctgag	agtgaaggcc	aggagcctgt	tttccttccc	cagaagtgtg	ctcatgggaa	360
atggggcagg	gggcaagctg	cttgggggatg	gaaagtaagc	ttacctttga	tattaaactc	420
attctttgac	ttgcttgcac	gccaaaaagc	ccnttttggg	gcnttaacct	tttagccntt	480
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<210> 7535

<211> 536

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 7535

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atgtctattg	tcttggagac	aataagctgt	tttatggggg	aatgggtggg	tggaaaaatg	120
ggagcagggc	ttctgaagct	gactaatacc	tgaagaatac	ggcaacgtga	gaaggcactg	180
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accagactgt	agaaagatcc	ttcaaaaaca	aacagtttgc	catttcctta	acaattacta	300
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acaagtctct	ggtttcaaca	cagtgacagt	ggggaatggg	tcatgtccca	aatgattttg	480
gaacaaggnc	agggtcctat	gaccttgctg	gcatgaatgg	tgaagnccat	aaggga	536

<210> 7536

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7536

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aagngtttaa	ctttgtgagg	gcttgccana	ctgctgtaac	atttcacagt	cccaccagtg	180
gcgttttgag	aattctaatt	tctctctttg	ccagcacttg	ttattatgcc	tttttgactc	240
tagtgctatc	ctggtagatg	tgaaattatg	tctcattgng	gttctgattt	gtatttccct	300
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ggagataacc	tatgttnatt	gctggatatt	tacatctctt	tccaactcaa	angngaccat	480
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<210> 7537

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7537

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ccgtttctgt	ggccgccggg	ggtgacgggc	ctttgcaggg	gctcatcccc	gotccactgc	180
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tggcggatca	tttcagcatt	ggcttctttt	ggatgaaagc	ancgtangaa	ggncttccat	480
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<210> 7538

<211> 529

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 7538

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tatgctgcat	ggttttgaaa	taataaaaact	ttantttgna	aaccaaacact	cacttaaaaac	480
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<210> 7539

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7539

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atgtgcacat	atttttacat	ggctggaata	atagtaaata	ttctatttga	tgcccccttt	120
tgccatatta	taaacatttt	caacatggca	ataaaacctt	tataatgggt	cacagnggct	180
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ttcaaggcaa	ttctcctgcc	tcagctttcc	aagnanctng	gattacnggc	cccacttcta	480
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<210> 7540

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7540

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tgattctcaa	ttttggcaag	tacaacaggt	taagggttct	atttagtgct	cccttctgat	180
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ggtgttctat	acgctactga	tggggactgt	catgaacaca	tttaaattga	attacaacaa	420
catttttagat	aggaaatata	gaatcttata	agaacntaat	ctaaantatt	accantttt	480
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<210> 7541

<211> 528

<212> DNA

09629469.072800



<213> Homo sapiens

<400> 7541

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agccaactat	cctctaagcc	acagcttggg	aagctaggct	agtactgggg	tgggggcagc	180
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ancaacttca	aggggcctct	ctttctgctg	cccactgnat	gccggccctt	ggctttaanc	480
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<210> 7542

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7542

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gggtccaggc	accctccctg	cagtccccgc	ggccaggctc	ctgagtgtgc	cagcagagcc	180
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<210> 7543

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7543

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gagttacaag	gtgttattat	ctcacacaca	cacaggaggc	ttcactctag	agctccgctc	180
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agtgggatat	acctcaccca	tatagagttt	ctttatatga	ctcattttat	agcaagttaa	300
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<210> 7544

09629459.072300

<211> 557  
<212> DNA  
<213> Homo sapiens

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ggctgctgcc cccacacggc ctccacgagg tcacgggtcc atctccacaa ccccaaggca 240  
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aatgagcacg ctttctatgg ctgccaaaagt acaaggagag gctctgccct gggagccact 420  
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<210> 7545  
<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 7545  
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cacgcccggg aagtgtctcag agactttcgc tgcgccaggg aaacccctgc agccccaga 180  
ccccgaggct gctctgcccc accctctgct gcggcctcgc ctgtaggctt gccttgccat 240  
ggctgttcag tcattcgctc tttcattacc acaataaaag cataaacaag gaaaagaaat 300  
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aatgagggta ttctgtctca gctgcacgcg caatgggtaca tggggaggag ggagcaccaa 420  
angggaaagg aaggaggggcc tgggaccccg ggtggtttat gggcagaaaa gccttggana 480  
agtccctgnt taagcctcan tggccgggct tntgnttggc ttttaactta acaatccaaa 540  
tctcttcttt ggctcttttg caataccnaa 570

<210> 7546  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 7546  
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atggaacttg catcctgaag gggagaagat gatgataaga actcaacaag ctctaggaga 180  
gcaaggattt ctgtctcttc tgttaacttt ggtattccca gcatctacta gctgttcaat 240  
aaatagttgt tgaattaaac aaaaaaggta acttcagcta gtgataagtg ctataaacia 300  
tacagtaata agtagagagc attggaggaa gagggcagat atgttattac agatcaagga 360  
gttagaaagg gcttctctaa agagatgcc aacttaataa cttaaagtcag 420  
ccctgcaaag atctgaataa atacttttnc gaaagagaaa ccaccaaggc tcttgctgag 480  
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caggt 545

<210> 7547

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7547

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acctcaaaact	cctagactca	agcaatcctc	ctgcctcagc	ctcccaagta	gctaggacta	120
caagcatgtg	ccaccacact	tgtttcattt	ttaaatTTTT	tgtagcaatg	gggggtctcgc	180
tatgttgccc	aggctgggtc	tgaactcctg	gcctcaagga	ggcactagat	tgaatgacaa	240
cagctacagc	atttcttact	gaacttaacc	ctgtgtgacc	cttgaaataa	taaaacccac	300
tgatcaaaaat	agatgctata	atctttacca	caaatagaata	attaaccctg	tgotcaaaact	360
gctacaaaaa	tatgagattc	aaatgttgga	gccaatgaag	tttgtataaa	ggagagtttc	420
tgccagtggg	atgtggcagt	gccacccttc	ttatatcttg	gctgtcaagt	cttttggctt	480
ggtcccgcga	cttcattggg	gccaatgctg	aaagatgaac	tttgtcangg	ccattgntta	540
accctaaan						548

<210> 7548

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7548

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ggccgaggat	ctcctctctg	gtggatcact	tgagggcagg	agttaagaga	ccatcctggc	120
caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	taggagaatc	acttgaacct	180
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ggtggggaaa	aaagtaggac	ccctgtccta	tattcagggtt	tttctcacat	atatgaaccc	300
atctaaattc	tacgttggtt	aaggtagctt	aggttaatta	gtctatactt	atttaagacc	360
aatatggggg	gagatggatt	tttttttaaa	aatcctacag	taaggctttc	tactttcctt	420
ctaattgagga	aaaagggtgac	aaaaattcaa	gtgtcaatgn	cccctttctg	ggaaaagggt	480
tanaaaaacc	attgcttacc	tttgacttta	cnagttcctt	tgaagttacc	aagcctttaa	540
atccgnngg						549

<210> 7549

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7549

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gaggaaaatc	ttacatatta	gggctcatct	taatgttatg	gactgatttc	agtaaaactt	180
tttaaatagt	aaatagcaat	taacgtattc	tcaaactgtg	ctaagtagtt	agaaaggcaa	240
ctataaaatc	tataatgata	acacgtggca	ggattagaac	tgttctgtta	aacattaaga	300
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09629459.072800

tgctgtgggt	gccacaatga	ttaccaagtt	tcttcttaag	taaaagacac	ttgtttgatc	420
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ttgatata	taaggagcaa	tatgaaatnc	actgtataac	tctaaatccc	aaggccatga	540
atattcattt	ctt					553

<210> 7550  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

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gggtttgtca	gctccagcct	cttgggaactc	tttttcctgg	agagagtggga	gagaacagtg	120
ggaggcaaag	acacatagtt	gggggaagggt	tcttttaata	tgcagatgct	tcaggggagaa	180
ccaaactatt	tcactggtaa	tctcccgtcc	cactggaact	ggtgcttgga	tcggaaggga	240
agtgagatca	gtcaattagt	taccaacact	gccatcagca	ttgccagaga	ggtggagggc	300
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actcttcagg	gaggatgcta	gagcctgccc	tggtgtaagg	gggtccatct	ccatgaatcc	420
tcttgcaata	ctgggcaaca	gtccactggg	cacacattcc	accttactgg	ttttttttaa	480
ggnggtggnc	tacattgagt	ttaanccacc	cattgatgac	nattcggatt	ggngcaataa	540
ccagnngaac	tccatttttn					560

<210> 7551  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

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agtcaaggac	cttagggagc	agagcagtgg	aatgcaaaca	cagaaattac	ctatgagtca	180
cttttgtgag	ccaatgacac	ggcctcactg	cagccattcc	aagaagtatc	tttgctcacg	240
gtaaatgcaa	agtaaacaaa	ataccacact	gcatatttga	aacaaacaaa	tgtgacgttg	300
cctatactgg	cctcatgtgc	agaaggaatt	ttggtcagac	aatgacaaaa	aaaaaaaaaac	360
aaaacagatt	gtgaaatgga	attaaaagca	caattctttg	gnatctggga	acgttttcaact	420
ggcaacacta	ctgtatgata	cagacgttcc	tggaacagta	gttatggttc	tcttcctatc	480
cccaaagaag	cnccatngaa	gaaatnggnc	ncaaatggaa	ggaagggggt	tgttaccagg	540
ttnttcagg						549

<210> 7552  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

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tcttgtattg	ttttcagggt	gacctaatat	atcaaaatct	acatttiaca	aaactccttc	120
tgcagatagg	tcatagatac	tgcatgcttt	tttttttttc	aacagaataa	attatatatc	180

09629469.072800

caggagattc	tgccatttta	cagcctggaa	aaaacaatgc	ttccctggaa	actgggctaa	240
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cagactaatt	tccaacattc	acttgtttat	tttttttaaa	cagaaagttt	ttttccaaga	360
tataaacaat	ttttgttaaa	ctataatata	atgggagtaa	aaatgaactg	agaatctggt	420
tctgctgcac	aacagcgaag	ggagctccca	caaaaatggt	tgcccaacat	ttccttcttt	480
tggtcctgca	tnccangttc	acttactctt	cataaactgg	atTTTTTTtg	ccaaaagggt	540
ggnanttcaa						550

<210> 7553

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7553

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tttttacagt	aaggctctgg	attcaaatac	ccacttgtag	actgacagct	ttaagaaaaa	180
caggacacag	agggagttgt	catttttagc	agcaatgaaa	taccactaac	ccctttttac	240
ataccgaatt	caagtcacta	tcagagggtga	gtgcaccaca	aagtcaccag	gtacaaaatt	300
gctagttcat	ttttaaatta	ataacttgaa	attacccttg	ccccccaccc	cattacatct	360
ttttataaac	agcaaacatt	ttgctatatt	atacataggc	tagcagggtt	gtttcaatat	420
gaaagtgcta	attcattttac	agattttttat	aatcagggtat	gtaggggcta	caataaaaatg	480
nccaataatc	tacataggga	ccatggtgga	aaatggtgaa	naccgggata	aggnttttag	540
atggncttt	t					551

<210> 7554

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7554

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ttttgagcag	aaggaagaac	tcatttggtt	ttataattcc	ttaactagtt	tcaagcatat	180
tgcatgtact	atgtgccagc	cactgtctgc	ttgctttata	ttccctatct	catttcatcc	240
tcacaccaag	cctaagaggt	cgggtaccatt	atccccattt	accaaattag	gaaactgagg	300
atgcccaggg	ccacacagta	ggggccctta	gtattctgtt	tcttaagagc	tgctcctttt	360
tcccctctga	aaagagataa	tgtgggtaca	gtggggaagg	atactagact	aggaatctgg	420
attctaattc	caagctctac	cacaaatcaa	ttatnccaat	ggngcgactc	ttcatatgcc	480
ggatcctgnc	cttaaggngg	gnatggggga	ctcagaacct	ggattcagna	aacacctgga	540
agctgggact	tnnttt					556

<210> 7555

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7555

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gggganaagg	ctggggccaga	gccaatacca	cattctgaac	acaggagcca	cgggaaagag	180
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ttccccana	agcctgtgtc	cggaaacctag	canagcctgn	gccatccgga	ggagggggct	360
gcttagcccc	agccaggctc	catgtcttgc	tcttcaattc	cgttcaactga	catcagacct	420
tgtcccacac	tcgaaaagcc	tttttctccc	ctggcttatt	ctaaactgga	aaaggacngg	480
agaaagtcag	cncaagactt	aaanggcccc	aggagaaatn	cccanggtna	nggcaaaa	538

<210> 7556

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7556

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gggtagttaa	tggggaaatg	gccccaggg	tggggctgac	canaanagcc	cctcaaggag	180
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tcccagacct	ntgcttgtac	catcaaagat	gcccttggcc	aacaagggtc	aggaagcatg	300
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gccctggggg	ggcccccttc	ctntccatac	cccctaattg	tgactgctga	actgcaccat	480
tgggggcacc	cccgggttcc	caccagaccc	aggcctgggn	ctttgaacct	gggcttttgn	540
ctttc						545

<210> 7557

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7557

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ccttatgccc	tgaaagacaa	ggttcctttc	ttcattcagg	agtttctcac	cacatcgcca	180
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agtgggtcaa	tttccttctg	tctccttcca	cagacaaaagc	ccgtcagcag	ctgctgtttt	300
tgaattcacc	attctccgtg	atggaaagct	tgggtggggtt	ggtggggggag	atgccattgc	360
ggacctgcat	gctgtaccgc	tccttcaact	gggtcagcgc	gctcatcagt	ctggtgttgg	420
ctgaatccag	ggacacgata	ccggttttcc	tgggtgaata	atctcatctn	catttatgac	480
ctngncatca	attattttct	gntttgcatc	aatactgntt	gnattttanc	atgaaccttt	540
ttaagntcct						550

<210> 7558

<211> 561

<212> DNA

<213> Homo sapiens

009270.6946360

<400> 7558

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agcgatcagg	aaaaggatta	atcagtaaag	gagaactcgt	gagtcattcc	ataagatgta	180
aagcactggc	cgtttctgtg	aatttccttg	aacaaaggcg	tgtgtctaaa	ctacttaaga	240
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ctcacattag	ggttttacaat	agtaagggta	tctttaggag	ccacnttggg	gagggtcaaa	540
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<210> 7559

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7559

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ttatttaagt	agtcttcatt	tttgaagcat	tttcccctag	tactctaatt	tcaaaatcag	180
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<210> 7560

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7560

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ctgaataagt	ccactatgga	tatatatagg	aagagatatn	catatatcca	tccacagatn	180
cacacacaca	tatatatttc	tgcatgtata	tatacataat	tctttctata	gttncaggaa	240
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gcacatcggg	gacncagngt	atctgaagac	tccgcngnat	acttccaaca	acgggggcat	480
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tt						542

<210> 7561

000220.69463960

<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 7561  
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ctgggctttt atctgaggtt cagatgcttc ttccaagatc acatggttgt tcacaaaact 180  
tatttccttg cagccgtaga gctcatggca gcttgcttat ttaaggctaa taggagagag 240  
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catattctgt tggttagaag caggttacat gtcccaccca ctctcaatgg gggagaggat 480  
tataccaagg catggattat tgagaatcct ctagaaatct gctatcataa ngggaatatn 540  
tatctatgga gnggaaaaaa attaa 565

<210> 7562  
<211> 444  
<212> DNA  
<213> Homo sapiens

<400> 7562  
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atataactag ttignatgtt attcccaggg cactgttgaa tatatttgaa aaaaagatga 180  
ttgaagcatt tactaaaatt ttigtatttt aaaagaccaa atccctatgg atttgggaga 240  
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agttctggaa agagaacaaa ctgcagagta ccacagggat aatgttaggc cttcttacia 360  
atgatttgca agaaggaact cgggaacatt tccaaaccca ctggttgcat tcaactntgn 420  
ttgntgancg ngncaaattg aan 444

<210> 7563  
<211> 498  
<212> DNA  
<213> Homo sapiens

<400> 7563  
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agtaactggg accacaggcg cccgccacca cgcccagcta attttttgta ttttttagtag 180  
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gggattatag gctgggtcac tacnccagc ctntatatca tggacnctt tcatggggaa 480  
gaaagngac tggaacga 498

<210> 7564



<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 7564  
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 cttgctcagt gctgtggtga tggccacagt agcctcgggg ggacacagcca cggntggggc 360  
 agcagtcact tcctttggcg cggggcaggc agggcttaac agcccggctg tcaacacacc 420  
 cgaccctgcc gaccggcttc tctgtcctgg ccactgtggg canacggggg gccttcgggc 480  
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 gaacccc 547

<210> 7565  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 7565  
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 aaatacatag caaatttatg aaaagaagaa tattcaggga taatgcaatt tcaattgact 180  
 aaaaagaatc aatgagaggt caagaaggat ccactctccat ctgccacatt tgagctgata 240  
 atcaatgtgt cacatattaa ttgaatatcc atccacacat gtacaacaca ctgaatcagt 300  
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 aatactgcat tggctagggt gttgctggat ctctatccag cagactccaa ctgtncaatg 420  
 cttaatcaca gtangactta cttggcaatt cacatgacca gtccaaactg gcccatgaag 480  
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<210> 7566  
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<212> DNA  
<213> Homo sapiens

<400> 7566  
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 aggaccacag gtatgtatca ccacacttgg cttgtttatac gcacgtgtgc gcgcacacac 180  
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 nagtttcggt agagatgggg ggtctcactg tgttgccag cctgggtctt aactcctgac 420  
 ctcaagtgat gtgcctgcct cagtctncca aagtgggggg attacaggcg taggctacca 480  
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aatnttctgg ctttaanc

557

<210> 7567

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7567

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tacttgaaaa	agggtgcaaa	aacaccagac	taataaatct	gactgaattg	aaatatctct	180
tctttctttt	taaaaagtac	atcattaaca	catacaccac	aaactgtaca	taagctcact	240
ttaaatacacc	aactggagat	atggtagcat	gtatactgta	gtgttaatta	tccctcccat	300
cagtttaatt	tattaaagcc	ttacactgct	gttcattcag	gagcctttgt	tgatatgcaa	360
gcctgtaata	tgaattactg	aactcaggta	agtagaattt	aaaggaggcc	aacaacagct	420
gccaagaatt	atctgcagta	agaaatgtcc	ttctcacaga	agactcaatt	aggagccaac	480
atTTTTTaaa	ctatcttccg	ntttcaaaaa	tattggancc	ggncaaaaat	cttcantttg	540
gaactctgga	tgctggnggt	tgatgaaaac				570

<210> 7568

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7568

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agtaaataaa	ccagaaattg	gataggcgtg	gtagctcatg	cctgtaatcc	cagcactttg	180
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gcaaagcctt	gtctccacac	acaaaaaaat	acaaaaatta	gctagggtgtg	gtggtgtgtg	300
ccttttagtcc	cagttatgca	gaaggatgag	gcgggaggat	tgataaacta	ccccacgtgg	360
tagtttaacc	tgttgcctat	actttggaaa	caaagagaaa	aatgcatcca	agtttggcaa	420
aggaaagcag	caatcatcta	tctgtcttgt	gcccaccatc	aagagagttc	ttgagaccaa	480
agtttccaaa	tggagactta	actctggcac	tgcagaaaag	ttaccaagaa	tctgaaggnc	540
ngactgatgg	tanactttat	tcngaaacaa				570

<210> 7569

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7569

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aactgccttg	actgctgtgt	ggacaaaagat	tccaaggatg	tactttggct	ccatgggaag	180
gactactgca	atttattagc	ggtatctgta	aacatgggga	ataaatctca	gccctggctt	240
cagcctcagc	cacagccaca	gctgcagctt	ggacttccat	ctccactgcc	tcgcggtact	300
gcacagccca	gtccttgggg	tctttcttct	gcaccctgca	tgcaaacttg	aggactttca	360

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tcttgctagt	ctcgtggtag	gagcgcaagc	cccagaagaa	ctcatattca	ggtgggtctgc	420
tgtagggac	cctcttgtag	tccaggtagt	tctgcttcac	aaactcgnct	gngatgaagc	480
ttctcactt	tcccaaaaag	gtgaatgcct	naccccaggg	cgcaacccca	acttggcaag	540
aacttccaaa	tgacagctta	attggccttg	gtgn			574

<210> 7570  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<400> 7570		
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cactgcaacc	tctgcctccc agggttcaag caattctcct gcctcagcct cccaagtagc 120	
tgggactaca	ggcatgcgca ccactgcacc cagttaattt ttgtattttt agtagagatg 180	
gggtttcacc	atgttggtca ggctggacaa ggcttttttt ctttggagaa atcactcacg 240	
atcgtatgaa	tttgcttcca aaacatccaa attaatgta ctaatgcaag gactggtaag 300	
acttaagatt	cacataacgt cctcatagt taagtctctt gcttcctact attagtggaa 360	
tcaatcagca	tcaggtagctt caaagaaagt caaatcctaa gcctgccag gcccaaagac 420	
aaagccagcc	aggacctgac cacctgtatc ctcttggtgg caatctgctg aagccagatg 480	
agttctgctt	tttaattcca atcctattct ggcaactggaa ctangnctgg caaccctctt 540	
aatcattaac	atatcaaa	558

<210> 7571  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 7571		
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gaatgccatc	atcagagggc tctgggtcat cagccaagga ggggtgaaaa gacagaagca 180	
gcaacaggtc	cttcagcaga cagaggggca tcgatgccac catccctacc cagggtgcagc 240	
caggaggagt	taaagatctt gggagagcaa gcattagccg gcagttccag tgggcagctg 300	
gggcctacac	accgaaaaca aggctgagta gtcagaggca gcaggaagag tggccaggag 360	
agaacgccaa	gccggaagga accatttctg ccaccagca gaccacagc accctctgtc 420	
tgngctcaga	taccagaggt tagtcaacct agcgtcttca actaattgga gatcggagct 480	
gggcttaaga	ngctgaaaac ccnggggntt agtaaacaca gnccagcata cgtccttcac 540	
gggctgaact	ggacttgcca n	561

<210> 7572  
 <211> 565  
 <212> DNA  
 <213> Homo sapiens

<400> 7572	
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nnnnnnnnnn	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnn				565

<210> 7573  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 7573

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ctttgtcaga	aatggaattt	cacctgtcac	tcgctgattt	aaccttcact	tcttccctga	180
cccacaccca	gaaccaggca	ccctccagag	ctggcccatc	tcccctccag	cccctgcctc	240
cctgcccggc	aacaccccgg	gagctccagc	gagtctctgg	ccgctccaag	cgctctgagg	300
gcaccagcct	gtcccactct	ggccatttca	atgccgctcg	gacagagcct	ggtgggggtc	360
gtaagccagt	gcataccccc	accctgnacg	tgctcttccc	gggtcggcgc	caagctggtc	420
tggacccgaa	tcctcgcgct	gacgcttcct	gngtcccac	ggtgctggac	ncaagaattg	480
aggtgggggtg	ggntaccctg	aggcccaagc	cttccaaaa	tggtaaaacg	gccggaggca	540
tggttgntng	gggtggcana	n				561

<210> 7574  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 7574

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cacataacaa	gtctaatcgc	caactagttg	tacgcctctg	aactacaagt	caacaatcca	120
attcagcaag	gaacaacagt	gtcaacagct	cattagcggg	tggggaccgg	attttccaaa	180
tcaatggctt	tggctggcag	agtgotgagt	ggggcctgag	tgaatgaggc	taaaacgctt	240
ggccgaagcc	gtccatcccc	aatcctgaga	acagagttgt	ctgtttctct	ttcgggggtc	300
aggtcagccc	aagtaagagg	ccaacaacct	acctgggccc	atacaaggcg	acacaaggcc	360
caccctgagg	tgacgcgccc	tccaccctca	ctccatcccg	gggcacagct	ccttccgctg	420
gtgcttagga	aaaggcgang	ctttggtaat	tctcatcttt	gtagttctgc	tttgaaaaga	480
aaagggggcc	ggcaccggcg	gttacgcctg	naatcccaac	acttttgga	ggcccaaggc	540
ggntggatca	cctgaggtca	gganttca				568

<210> 7575  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 7575

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ttggat	ccta	gcaacct	cca	ttttttc	ttc	taattcat	ga	agaaatt	ca	catcggc	agc	180
tattgat	gaa	atggcag	tgg	aactttt	ggc	actaaga	atg	gctcgag	caa	tgtactct	tag	240
tcgctg	ctga	agtgaat	ttt	ctgtgct	atg	catgtcag	cc	agtctgg	aca	gtacacg	agc	300
agcatt	actg	aaacttc	tgn	tcttctc	gta	ataccgcc	ag	agtaa	atcca	tataacg	aac	360
tctgg	tttga	tcaactt	tgg	ccattcg	gac	tagatgt	ggc	ttcagaa	atg	gagaaaca	ac	420
ctgtag	cagc	ttatctg	caa	ggncgac	t	gattagcc	ca	ntatta	ang	caatact	aaa	480
gagctc	atcc	ttggatc	gct	gngaca	atta	agcattg	gtc	aaaang	aggc	cngctct	tca	540
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<210> 7576

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7576

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agtaggc	ttc	ctgg	tcccct	caaggc	acct	ctactct	cag	tgctctc	aga	gccacat	gg	180
gatgtcc	ctc	acacct	tggcc	tggaag	ccag	agggcag	gaa	gccagcc	tca	gcctcag	ctc	240
caaatac	gca	gacaag	ccct	ccccg	ctgca	gccacac	caa	atggca	atta	agtcaaa	agc	300
tgggtag	cag	agggtt	tctg	ggccag	agtg	catggt	gtct	ctggat	ctac	ttccctt	ggt	360
catgtgt	act	gggggg	tagg	gaggca	caga	caccag	ggc	cctgc	ctcag	gtccag	caaa	420
gctgaa	agga	tgaga	acaga	ggaaac	caag	aagcag	gcaa	gaggc	ctggg	acccag	gggca	480
nggtca	accc	ttctgg	gctg	nttac	ctggc	acttgc	ataa	agggat	gtgt	aactta	acat	540
tcaggat	ttc	tttttc	caaa	tgagac	aggc	attgcag	taa	tgt				583

<210> 7577

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7577

catcaac	aga	attccag	ttt	attacct	tata	tatacg	tagc	acagtc	atag	gatact	gtgc	60
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ttagcat	cat	gagga	agaaa	cttttta	agt	caatac	agat	tataat	gaac	acctgc	catt	180
cataaaa	atg	taacata	cat	tctatt	tatac	tatgct	gatg	aggga	aggga	agcta	agtga	240
gtaaat	cagt	tgagac	gact	taagaaa	aat	tcaggaa	atc	ataatt	ttaa	aagatc	agca	300
tatttt	gtat	accttta	agt	agattag	agt	gtgttg	agtg	tagagt	ctga	tccaca	aaagt	360
ctgagc	aaaa	aaaact	ggtg	cttcta	atgg	aatgt	ttttt	gtttttt	ttaa	gaatca	aaaag	420
acata	taaat	gaattc	aagc	ctaaca	aat	agcttc	aacc	caaagt	ggca	ccattt	gggt	480
tttatt	ttttc	cttttt	tagga	aagtat	ctct	gatgac	ttaa	ttagg	tttc	taagca	aaata	540
ctggct	tgn	caggca	taga	agccc	agncc	tttggt	ttaat	attc				584

<210> 7578

<211> 595

<212> DNA

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<213> Homo sapiens

<400> 7578

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cctgggggtgg	agcaatgtgc	ttctgatgtg	actcagggct	caggggactc	ctcaccgcag	120
ctagcccatc	acagctagcc	cctgaagtct	gccttcaggg	aggcgcagac	aaactcacgcc	180
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gcagaaaaag	ccatgtttat	ttcccttggt	tccccctaga	aatcccagtc	atcacctaga	300
cccctgatgg	gttgagctgc	agaaaaccct	ggcccaggtg	accccaaaaa	ccactggcct	360
tccctgaggg	aacttgaaaag	gggggcattt	gaaatggagg	ggaaggagaa	ctaacccttg	420
aaatgtagac	aggctactga	ggatggaagc	ctggggctgg	tgctgagggt	atataatgca	480
gcactatggt	taaaagcact	gactcggaat	gtctgagctg	ncattctgct	ctctttctgg	540
ggatctgagc	tgtgtganct	tangcacgca	tcaagcctnt	ntgatcctna	ancta	595

<210> 7579

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7579

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taaggtagga	ccactaaata	atggttcaag	acagccagtg	acacttcaat	gcgaagggtga	180
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cttttggtgg	gggtgcactc	ttggggtctg	ccatggnnta	agctgcatgg	gcactgnttt	480
catnggcatt	aacccaacac	tttggttcta	ancccggggg	ggcaccttcc	ggaaggangc	540
anncttga	aaa a					551

<210> 7580

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7580

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gcagcctana	cctcctgggc	tcaagtgatc	ctctcacctc	agcctactga	ggagctggaa	120
ccacagaggc	accagaccca	gctaactttg	tgtagaaaca	gggttttgcc	atgttgccca	180
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tgattctcct	gcctcagcct	cctgagtagc	tgagattaca	ggcatgcgcc	accatgcctg	420
gctaattttt	gtagaaaatt	attattttcta	tggtacatca	ttttaacaat	gcagggggta	480
tctttgacct	aaaaacgaag	gtttaaaaaac	cattttttaa	ttaagaatgc	cattagncan	540
tcttngnctg	acatgaagat	acngggcctn				570

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<210> 7581  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 7581  
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agttttactc caaaggagta ggatcattca gattttactcc aataaaaagta tgcaaccctt 180  
aagcaaagct tttcttcatt taaaaggaga aaaaaaaaaa aaacctatac agtagtcttt 240  
ccttatgttc attgcncaaa atgagttctg cttttanaac tttagacactc aatggttaat 300  
tttacaattt aagattccaa ctttataacc ttttttctac tccaaaacac ccttgtaaag 360  
tttttcttta ggatgggtgta aaaaccagca tttctgcaca attcactgga atttttttct 420  
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cccaaagaaa aggccnttac ctatcanggt tctgcagcta tgcntggatt cnggttaaag 540  
ctg 543

<210> 7582  
<211> 575  
<212> DNA  
<213> Homo sapiens

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tcagtttcta aaccagctta ctatttttct ctaccgaacc tcccccttgg ggatcttcac 180  
aataaactgg cttcagaaac tattttctct tagtttcgtg ttaatacaag caacagaact 240  
tttaaaaaaa taagacggtt ggacaagtgt gaaagatact aggacaaaaa aaatgcctct 300  
gattagccaa attacggttc aagcctcttg gtgcttcagt gggagaagggt ggggaagagt 360  
ctgcctggtg gcctggcaca aagggtgccac atgaagggga agcccccagc agtgagaacg 420  
cggcccatcc cactgaaaca acatgacttg cttgacattc ttccntttca tgccttaaag 480  
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gtgaaaacca nggtcanttt aaaaaaagcc gggnc 575

<210> 7583  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 7583  
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caaaaaatga aaatgtatat atctatgact gtaagaaat gttagaaatc attaaaatgt 120  
tctgagaata ccagtaaggc actgaatgca aataccacct gaaatatgaa ttatgtgcat 180  
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atgattcaac cttattattt ttaccctgga agacagagtt taaacaagta tgtaatgaaa 300  
agttttccta atgaaagctg tgatacactc atgctcaaag gtactttatc cttaggaaaa 360  
aatagcttat atatctggat gttttaactt ttaaagatat ttgttttcac cacagtaata 420  
cgtcagccat aataaggcat aataaagcat gaagtcacat tattaataaa tctgacacaa 480

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aagcttaaga tcatatcacc aattgggtaa ttgnataaaa aattttttaag tctattaact 540  
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<210> 7584

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7584

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
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<210> 7585

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7585

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cctgggaaag	ccttcttcag	gcagaatgaa	gacccatggg	aaanggcant	cagtggggan	480
gcaaaagaaa	aaagggggaa	aaggaaatgt	gcctgggcta	aaatccactt	ggtacaccna	540
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<210> 7586

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7586

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ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagcgt	taataataact	cttggagcgt	taatactctg	gggaggggca	240
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<210> 7587  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 7587  
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tacagggtgcc cgctctcacg ccaggccaat ttttgtattt ttactaagac ggggttgac 180  
catgttggcc aggctggtct tgaactcctg accttaggtg atccaccgc ctccaaaagt 240  
gctgggatca caggcatgag ccaccgcacc cagccagaag acagctgctt aaaaaagtaa 300  
ttctaaaagc tctgacgttg gatccccctt gctgcgtttt ttgttagtat caaactgtct 360  
ttcagagggt taaggagaa aacaaaacc atgatgctcc ttcacttgct ctccgaggcg 420  
caggcgacac gaaacagcg cacggaccac agaaatgcag gacggactnt tctggttcca 480  
cgccacgang ctggaacatn aancaggctg cctggggcac acacangctt caggaaacta 540  
acttcttca tcaagttaaa acatn 565

<210> 7588  
<211> 501  
<212> DNA  
<213> Homo sapiens

<400> 7588  
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ttgaactaat ttatactccc accaacagtg cataagcatt gccttttctc cacaaccttg 180  
ccagcatctg ttattttttg actttttaat aacagccatc agccattctg actagtgtga 240  
gatggtatct cattgtggtt ttgatttgca tttctctaata gattggtggt gttgagcctt 300  
tttcatgttt gttggctgca tgtatgtctt cttttgaaaa gtgtctgttc atatgctttg 360  
cccacttttt aatgggntg gttttggaaa tttggttaag tttcttatag atgctgaata 420  
ttagancttt ggtggatgna tagnttgcan aaactggcat tctgnaantg gctggctact 480  
ctgntggaa tttctttgct g 501

<210> 7589  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 7589  
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aatttcatgt acttgaattt aaaaactcta agtgccaaca ctgtaaacad tttgtatctt 180  
ctcaactaaa cttgcgga taacaaggaa aagagcaaag ataagcagta ataattttgt 240  
gtataataaa gctgatctat ttttcagctt ctggtttaaa tttaaataag attttaaaac 300  
aatttttaaa ggtccatgct acaattgtaa aggctatttc tatgcacttt taattctgga 360  
cacaattttc aaaattgcat gatggaggta agaattttta aaaccaccg gaatgtaaat 420  
aacaggga aaacattttc aaatcaaaag atcaaacata cattcagggc agaaatctag 480

09629459-072800

accactnttc caggttttta gccatcatgg tttaatatnc actntntgac cggaaangga 540  
cccgaatcc ccatttnntt 560

<210> 7590  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 7590  
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ctgcacactg agagacttca aacttttcctt tcacatcaat tctattttct gcaatatcaa 180  
ctgtgccatt ttcagatttt aatgttgatt tacattttta aatatctttc cttacttcat 240  
tcaaataatt gaacacittt gtttgtttct cagccagcat cctcttcato tcagtttgcc 300  
atgtaatctt gggcctgttt atgtagaatc tatgctttct tgaattttat tcagagtata 360  
agcagatggt ttctcttgaa atgattcacc agcactccaa caagttctcc aattcgactc 420  
tcatgggttg gctgtttgct gaagaggcag acaatggagg tcttggtggc nttcgnatgg 480  
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acnctg 546

<210> 7591  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 7591  
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aggccgtggc cagcactctc tgtccccctc gctggtgatt tcagtcttac attcatagga 120  
aggcccctgc ccggggcagg gcagccatcg gctctttgcc ccagtaaaag ttctcctta 180  
gtgagactag aaaacaaaaa caatgaaacc caccacaaag ggaaaaacaa aacaaaaaac 240  
aaacaaaaaa aaaggaaaag gaaaagaaaa aaaagcaaaa gtactggacc attctgtgat 300  
tccgtttaac ctccggccact tcaggaacgc tgcttctgtc agcttcctcc tggcgctgct 360  
ttaacctaaa ggactgagga aatcagaact ccagaaagct tttcaaaaaa gtcataaaac 420  
agaaaacaaa aatcttcttt tggctgcaaa attcccaagg ggggtggttg atcgcccttt 480  
tcctanggga caagccggcc cgttgactna ncanggaatg gcntttaagt tnatccantt 540  
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<210> 7592  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 7592  
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tatcaaagcc taaaagtaca gaaggcttgt gattttttat tgctttcatg caaatatacc 120  
ttctttttcc aaaaaatgaa gccacatcaa tttccacac caaaagagt gaggacaaca 180  
gttctatttc ctttttacta ggatatggtt tottatggaa ataatcttta agaaattgct 240  
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00629469.07800

cctcgtcctt	gacaataggt	ccctctgttc	tgctttcatt	cctttgtctt	ttaaaaggca	360
caacactcgt	caccttttct	ggacccgggg	ctgcatcggc	atttaggatg	ggaggctgct	420
cctccccatg	ccgctggtct	tgggcccta	agtggccatc	aggcagcttt	ctcttaacag	480
aaaaactgga	atcatgcata	acttcaccac	tgactaaaag	cagntcactg	gtggngaata	540
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<210> 7593

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7593

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acagaaagga	gccaccattt	tctatctcaa	gcaaaccctc	atcaatgaat	atgcgatcac	180
tgatgggttc	caacccattt	tcacacgatt	tcgtagtcc	tttccttctt	aaaatgtctg	240
tgtgctgtgc	ttgtctccac	actgatagtg	actattcacc	tggtctcaac	cacatgacct	300
ctttgtatac	taatatagtc	agaggctaaa	tacagctagg	gaaaccttag	actaactttg	360
caactatctg	cctccagtgt	caatcccaaa	ccccgaacaa	ccatctttgt	ttagtgggca	420
agagaggac	cacattgatt	tcagaaccct	cagagagctg	cttctcatta	tataggcaac	480
gtgtgaagac	atatgattta	aattggggga	tgtcacttct	tttgggtcaaa	ttgactggat	540
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<210> 7594

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7594

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acaagtcgac	ttgctcagat	aatccttgg	gggaagagac	aaatgcgagg	agtgtctcca	180
cagccctgct	ttgctttgct	ttcgtcactg	tcgccagcc	atcgctctg	aaggcctgtg	240
aagttggagc	ggccagcccc	agaagtgggtg	cccaaagcct	gtctctcagt	ggcctcacct	300
ctggagggct	gggcaacagc	actggtcaga	agttccgaca	gctgaccacc	ctcttcggct	360
gagctagagg	tcttggctgg	gctctagggg	agcctcgagc	tgccccacgg	agaccagggt	420
gctgagctgt	cccagggcac	cgctttcggt	gggaaggtga	ccaagtctga	gttcttgnct	480
tcactctgat	cactgngctg	cttcttgnng	catctcaaga	gagtcatccc	tgacnaagga	540
ngccccgcag	gtctcacagc	ggaaaggcct	ttngntacga	tcttg		585

<210> 7595

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7595

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acagttccaa	tccatgggtga	catgtatata	cattcttaat	atttataaat	ttttacttgt	180
ctatagtcta	gtattgttat	accatgtggt	cttgttataa	tcatggtttc	cattctgtga	240
gtcttcagat	tatgagtcca	acacacaagg	ggatgtccac	actaacctgt	gtgaactctc	300
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tctgatataa	aatgagggtct	gacttcagag	aagccttccc	acatctatta	cattcatatt	420
gcctctccta	tgaattctct	gatggctgtt	gaatgctgat	ttgtggtaga	atTTTTTcc	480
cattcagtac	actcataggg	tttctctcct	gaatgagtct	ataatgnaca	gtgaggtag	540
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<210> 7596

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7596

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tttaciaaaca	gaactattaa	acacacacac	acatacacac	acacatatac	acacacaccc	180
caaaaaaaga	tacactctcc	acgcccaccc	acagatagga	atgttggcta	agggataatc	240
cctcaataac	agggaccgat	ggcattgatc	cccacagcct	agagccgaga	caggctctgt	300
cttcatcact	gtcctggggc	cagcacgtct	aaggcaaaaa	cctgctggga	agattaaagg	360
agctccagaa	aggaagagat	ctttcagggt	gaggtttttc	cctaagggtc	gtgaggcagg	420
tccctagagt	taaaggcaca	ttattggaga	aaaggcccct	ggatgtagag	aagaaaggac	480
tcttctctgg	caccaacagc	aataaaaatt	actggttgaa	aacatcctgc	atctgggaga	540
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<210> 7597

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7597

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cccttatcat	attgctttta	atgacagaaa	gattaaagct	ggcatcctct	atagtatact	120
aagcatgaat	gtaaagtatg	agaataaata	ggagactttc	ctaaatgtca	aattacaaaa	180
ccgctcaaaa	ctttgttaatt	gtgactcatg	caaatacctt	gttaggtcaa	cttaataatta	240
caaatactgc	atcagctcgg	tgccctttata	tcccttttca	taaaaaagaa	attctcactc	300
cactcctgaa	gccagcaaac	agctctggag	gaattacctg	tacacccaag	tgccacggtc	360
actctggaat	tttaatacac	acacacacac	acccttactc	atgaacatac	acattttaca	420
aacacacaat	ggtgtacaca	cacacacaca	cacatccaca	cacaccccat	ctttaggatt	480
ggaagctgat	tccaagcctg	gccttattct	atctaaattn	tcttgatat	cctgaacacc	540
tggtggtcac	aaaatgnatc	ttttacctcc	tn			572

<210> 7598

<211> 456

<212> DNA

<213> Homo sapiens

008270 69462960

<400> 7598

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taaccatcat	tatttgagt	ctctctagaa	cactcaaaaa	aatgaactgc	actttaaaag	120
ttaattcatt	aatttttaaag	gcaattttaa	taatctttac	atcttaaagt	aacatcttta	180
aaaagcaact	tcagaaatca	aattgaatat	caaatttggc	acaaaaatta	aggaatttcc	240
ttaaacagt	tgaacaaaag	ttaaaacaag	gtccttaaaa	tatctctgaa	tgttttatac	300
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gttttcataa	aaacactgcc	agnnnncccc	ggttacacct	gtaatcccag	cacttttngg	420
ggccaaggcg	gngagatcac	ttgaggtcan	gagctc			456

<210> 7599

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7599

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cacaagtttc	tagactgtgc	gatggcttca	aggctggcct	accacaactg	actgaaaaaa	180
tgatcatgtg	gtaagctgac	actgacttgt	atgtttttta	aaatggagag	acaatggcaa	240
attgtacctt	atgtccttat	agaacccaaa	ggatcattct	gagtaaagt	gaaataaata	300
aagtgatcca	tgagtaaata	caatctctgg	gctaacttaa	acctagaaga	gtgagccaag	360
tgagcactaa	caataccact	tagaaatgtc	tagaaacatc	atttctagaa	ctcagcttgg	420
gagaccatat	cttgccctgaa	tatgtacata	tatttacaaa	atattccctt	ttggcctctg	480
gaatttagcc	atttttagttt	ggctgttagc	tgntttcttt	ccatatgcta	gccaataactg	540
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<210> 7600

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7600

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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<210> 7601

<211> 592

<212> DNA

<213> Homo sapiens

09625469.072800

<400> 7601

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atggcacttg	cagggaacat	gagctcaatc	actattgctc	actaagcaca	gggtcacact	180
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actttaaatt	ctgaatcttg	ctgtgttccc	actgagcatg	ctgccttcct	agagcaggcc	300
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gtagggtgcc	taggtcatcc	tcatcattgn	ttatcatcac	agacttcttt	ctgcctgcc	420
gatatcttcc	ctacttgngg	ctttaaaaca	ccagcaggan	gggaagtcaa	nggaatggtc	480
ttggtaagta	taaatccata	gcaaaaacga	tttgagaact	ggatgctttc	caaggttgca	540
ggtgtttgga	tggttcctga	atctttatcc	caggatcttg	aatggggggc	ct	592

<210> 7602

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7602

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cctggccttt	ccagctggag	gcccgnntnc	ccgtggaccg	caccgnaaag	cccagcccgg	180
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gggtgttaaa	tgcccggcgg	catcgntaaa	taaggacaag	gggaaaaggc	agcccacctt	300
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tggtggcagn	tcagcccctg	gggcaaaaact	ggcctccang	ganggaacct	tgattatcca	480
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<210> 7603

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7603

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ggtgtcctct	tcctcanaaa	gtgctgtggg	tgaaccacga	gtctcaggga	gcagaagccc	240
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gcgccttgct	ctcagaagac	gaggaagagc	agggcctcat	gccggggcag	tacgatgttc	360
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ataggatgat	agcacttttt	catggtaagg	acgggggtcac	angggatggc	attgtgcact	540
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<210> 7604

<211> 584

003220" 69462960

<212> DNA

<213> Homo sapiens

<400> 7604

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tcntncaaag	gaaaatcaca	ctttttgggt	tactcctact	tgggttaaga	cccttaccat	540
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<210> 7605

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7605

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tcaacacttg	actccacaaa	caaggcataa	ccatgaaaac	aacactccct	ttattttggg	180
ctcccaaat	caaaagtttag	aactaattta	tttaatcaca	gatatttagt	atactcaata	240
atgcactaac	aatttcttta	aaaaaacact	aatactgtnc	agtatttctg	ngtttttagt	300
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taagttgtca	atagttcttt	ttctttggaa	aagtcagctg	tggcatttac	tcacttttagc	420
agatagctaa	aagggaaaaa	taagggaaaa	atntncaactg	gacctgcagt	naagttttgg	480
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<210> 7606

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7606

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agctgatttt	cttctgattt	cttccacttt	tggaaatcca	cataataata	atgttaaagt	240
ataccaagaa	gaacaggaag	ttcaagcaag	atacaaaaca	caccaatata	gaaaacaagt	300
ccggtagttt	ctgaggagga	tccagtgtga	cagtcatcaa	cgtcagaagc	accatagtga	360
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atttcctcac	agaaatggaa	aaggatttca	actgcagtct	tcttcagaag	tcttttcaaa	480
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<210> 7607  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 7607  
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cagatgagat gtctctcaca tgtatattta attattcatg ctttttcaat agtctcttag 180  
tcaactttca gtgtaatttc cacaaatata tagcagctca aacacaaatg caggagcaca 240  
atggcaaaagt ttggcaactg ttttgggcta attatgagta tgaaagaaaa ccctatatca 300  
cagtttcacg ttcatgtaag ccactgtgca acatgaatga atcttttaaat gtgttgacac 360  
tgaaatcaat gnncaactaa tgaaaataaa gaanaaaagg gggcttttaa anattngnng 420  
c 421

<210> 7608  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 7608  
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atgatcatag gaaacaaaaat gaggacagag gcatctggta tcttctaaaa gtggtacaaa 180  
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agccaaagga acagaccaat aaaaggggtc cgggggtgctt tctctatttc actcactcct 300  
cttatttgct aaggagctcc aataaccaaa agaatgggtt cctagaagaa gagaactaaa 360  
tctccagaga gctgctgggg cataccgata aaaactggga gaaacaaaga ctgacagcag 420  
agaagtccaa tactgctgct aaagtttctc agcctaaatc cgggaaagag ctgggatcta 480  
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ctntaaaacg gtt 553

<210> 7609  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 7609  
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agtacaggaa gggatatagag aaaataggat ttttcatgat aaaaatttta agcatcttag 180  
gaacacagac ctaaagaaac tataagacac aacggaaatt tcagcagcta cttaggatgt 240  
ttatttattt accttttttt gccaaattaga attagtattt tggtttttac tcttaaaaaa 300  
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cttaattatt ctttcaattt cttgtatatc ttctctctt gcctttgaaa agtttacctt 420  
actagctatc tatcttatat cactgtcgta gctcagactg ccctaacaaa ataccatagg 480  
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09529459-072800



tcaaggngta agctg

555

<210> 7610

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7610

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acgttaccac	taataaactt	attttacagt	aagtggttgt	atgatgccaa	tactgactca	180
aaccaacctt	tggatagaaa	agtgtttgag	gagtggaggta	aagaatgaca	cttccccttc	240
ataccaatgt	ccattaagca	gattgcttat	ttaaaatgtt	aacactcatc	acattttatc	300
tatgttgaat	aaatgtgggt	ctgtgtgatt	gtcatttata	tctgatcccc	aaatagctca	360
tacaataatc	cattcaatag	aatggaatta	aaactgttca	gaatgatttt	ccaactagca	420
aatataagta	tgcttggtta	agatatcttc	cctttgtaga	aatggtacat	tgggatggga	480
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<210> 7611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7611

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 7612

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7612

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tggcccccgg	agtaagagat	atcattctga	ggaacaccaa	gtggaagcct	ctaaaactgc	180
ccccctcccc	agccaaactc	tatgatcaag	atagtaaattg	aaaaacaata	ttgtgggagg	240
ggtagtgagg	tttataagat	ataaaaaagt	aaaatatatt	tcatatcttg	taaaccctac	300
tatacatatt	agtgcaggga	gccaaaggcc	catggggacat	gacaaactca	gcattccgct	360

002270.6946950

ggaggctata	tgatcaaaca	gcaaactgtt	tatcatgaat	gcaggatgtg	ggcaaactca	420
cactgccctg	ccaccattgc	cacagttacc	atattaacag	ggcttttnc	tggacatgtc	480
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<210> 7613

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7613

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ttcttatatt	cttagtcaca	aagataacta	cgttttacaa	agtcgaaagg	ttaataatag	180
cagctagcat	gaattcagag	cttgctatgt	attgagcact	gggttttaaac	acatatgctc	240
tattttatta	agtccttata	gtaggaaagt	gaagaataca	ctagtcactg	aagttccttc	300
agtgtcaag	actcaagtgc	actatagcaa	gacaaacacc	aggaaacatg	taactctgct	360
tcgaatactt	tagcaagtga	atggcccagt	ttgggaaagc	aagacaaaca	ctggatccat	420
aatggctttt	tacacctgat	tggaatgcag	aaaaaatgga	accactaact	actaatatta	480
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atgatggtaa	taaaacn					557

<210> 7614

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7614

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gttcaactgct	gtgcagcaca	cagcagtatc	tgggtcaatg	aggacatggg	cctagccttt	180
ctttctccac	caggaccctg	acttatctgg	ctggcccagc	atggaggaga	aggaaagcgg	240
gccgtgctgc	cgggggggatt	cctggatccc	tctgcatgct	gacagacagc	tgtccacagt	300
gggtagccaa	ggtgactggc	attttgatcc	cagctgaatg	aagactggat	ttgaatgcag	360
tgccagggct	gttctgtaga	caagagcgaa	cagtaccctg	ttcgctccct	tctgcagtac	420
cctgaggaag	gagagaggca	cccagggcac	gaatgcagac	aacagaggga	ctggccaggc	480
tatcccgttt	tcacctgtct	gtgccacaag	ncacccattc	catacttcat	gtcctangcc	540
aaagctggcc	atcctgggna	ccccat				566

<210> 7615

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7615

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agcttgcaaa	gggtaaccac	tcagcacctt	ctgcttccct	ctgttcagtt	tttccactgc	120
aattcttcca	gcataatfff	ctgatagcca	gngtatgact	ttggctttga	cttgnttcta	180

cacagggggt	ccagtcattt	atttctggaa	cttgatcagt	ctttttccag	gtatataagc	240
aaatntttcc	acactccaat	cctactgnaa	ccacgtatcg	ttganaaggg	nggagcactg	300
ggcanacgct	gacagctgnc	acagccccac	ccacgtccag	gactgaggag	cagggggccaa	360
tgttgggctc	aatacagtca	tcagnggagt	cgcacacacc	ccagacaacc	acctttttgn	420
ctcgactccc	agtgaagaaa	tacttgctgn	caggactnca	atcacaagac	ccaataattc	480
tactgggcnc	agaantaatt	tggtngggaa	ngcaaaagct	taaaactggt	tnaactaggg	540
gaaaatggga	nccggttttc					560

<210> 7616

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7616

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atgtggatgt	gaaccaactc	aacgtgctcc	ccagagactg	aagaagcggc	gttttagagc	180
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ttttctaggc	acccaggaag	gcaaatttaa	gctccgagct	gtatcaactg	cattctgttc	300
ctatcatcag	aagtctcaga	attgaacagt	aaatgggtgc	tacttggctc	cttgtcaaaa	360
taagtctgca	tggctctcac	aacaaggcag	acagctgttc	gttccgctgg	aaaggaaagg	420
agatgaactt	tgttttgctt	agcgttttgg	gaatcgtgac	cacaatttaa	tacaatcagg	480
tgtagtttgg	ttaaggaatt	atcaaagatc	atacttggct	gtcanaatgg	aattganggc	540
cgataggcag	actttgcctt	atgctanccg	aa			572

<210> 7617

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7617

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acaggcgtgc	accgccacac	cgggctaatt	tttttgtatt	ttagtagaga	cgggggtttca	180
ccatgttggc	caggatggtc	ttgatctcct	gacctcatga	tccaccgcgc	tgggcctccc	240
aaagtgcctg	gattacaggt	gtgaaccacc	gcaccgggtc	tggaggtctt	aatgggtccc	300
cagagtcacc	cgctccacct	gcagagtggc	agtaccaccg	taacttgctc	tacacaggca	360
acaaggccat	tttcagctgt	tactcagaaa	cttgcttctt	ggtgatatta	ggtttaaaag	420
acaagaaaga	aatcttattc	tacagggttg	gagaaaggga	aaattataac	acaaaagccc	480
acttcagtct	ctgntgattc	tgcaagagtc	acagctgagt	tctgaggccg	ccttttttca	540
ccagcccatt	tcanttgcca	gcacaagg				568

<210> 7618

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7618

008220 69462960

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atacatgaaa	gagctagtat	ataaaaaatag	tttttaaacc	aaaggtaacc	ttctctattc	180
tatatcaaaa	gtacaatact	ctgagtggca	aagaaccagg	gaatctgaaa	gaattacctc	240
cttttactaa	tccaagactg	gcagccaaaa	ggaacactgg	cctgcttcag	actattttacg	300
attcaacact	gaaaactcat	taggagaatt	aatctgcatt	tgaattttat	ggaatcatat	360
actgtgtgtg	catacatagc	tgtatgtaca	tctgtgtgca	tttctgtgtg	cccatcacac	420
gaactcactg	gcagccagtg	gctagagaaa	ggcaagcaaa	ttttggttgn	atctcaagcc	480
tgagtgtatc	tcacgacaga	actggagagt	cnngcngaaa	agactttaac	attanaggaa	540
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<210> 7619

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7619

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acaaaaggct	tcaaagcacc	agtggctaca	cccgttgagt	agaaaggggc	ttgggggaga	180
gttgggggtga	gagaggtgag	ggctggaggc	agggtggcc	cagtgaaggg	cagtagctta	240
gcctgaggga	gctgcccccc	tctcaagctg	taccaccag	ctgggagctc	catgcctgtg	300
ggggccagag	gaactccttg	gcctggctgc	ttgcatttgg	gatggtgggg	tggggttgcc	360
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gganaagaac	ggaatggtca	ccacagacag	gcttaagtgn	caaacatntg	gnccatttng	480
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<210> 7620

<211> 372

<212> DNA

<213> Homo sapiens

<400> 7620

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acagcagtgg	ggactagggg	ggggcaggag	agggtggctga	agcaaggcag	cagtaatggg	180
gccacgacgc	cacagagcca	gctccgtcct	ntcccanacc	ctggtgggag	tccctgtggc	240
ttgggggtggg	gagtggggga	cccaccccag	gccctccctn	tcccttcctc	agacagcctc	300
ctttngggct	caaccattt	cttccgcagg	agacttgagg	cacacagana	ggangaagtg	360
gnanaggang	ac					372

<210> 7621

<211> 504

<212> DNA

<213> Homo sapiens

<400> 7621

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09629469-072800



<400> 7624

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tcctctctca	ggtgcctcag	gtgtggaagt	tctcagattc	gaaggtttcc	tgccaggagg	180
gcgctgtacc	gggcagttgt	gaggggcagg	taggcaccta	cagcctggtc	cagaacgtac	240
agtgggtcag	acagggtgct	ggggtcgaag	ccctcatttg	ccatccgaac	tttctgctgt	300
ttgaaggtct	ctgtggtggc	caaagactcc	tggagcctga	ggaatcgggg	cggggcataa	360
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<210> 7625

<211> 508

<212> DNA

<213> Homo sapiens

<400> 7625

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catgtgttaa	cactgagtaa	catcctcaat	tttaaggna	tttaaaaatt	gttttgtttt	180
tgaaaacttg	tttaacttaa	cgatatttgt	ttatagagtt	aacataaatg	tttgaggaga	240
acattacatt	ctatacaagt	gaggccctga	cactntgaag	ctgaggtcac	agtttgnatc	300
aatatgataa	atattcatta	tttcattgna	tagactngnt	atatgaaatt	cagtaaatatt	360
ttactggtaa	caaacttaac	angataatat	gttaagaaat	accaaattat	atngggggct	420
ctggcaaattg	aaccaaccgg	nnaaaaattt	gacattncgg	ggacacatta	ccagggttgn	480
cnaaaagncc	ttatTTTTTT	agccttac				508

<210> 7626

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7626

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aatctatgaa	tcttgaaact	aagtacatca	atttcaaaaa	gtatttggtca	tttaaacaga	180
atcaacaatt	cggattgaca	agaactgttc	aaattaattt	gacctgtaga	ttctgagcca	240
tgtttttatt	aaagtcagat	ctatttcctaa	atacaaaata	ttttgaagat	ttattaaaac	300
tgaatattac	aatgcaaggt	aaattaagac	taaaggcaca	taaactttgg	tcccacctgg	360
gttgtaaggt	tttagaaaa	tgccacaaaa	ttaattcttc	tgcatatttt	cgcagtacac	420
tttctttatc	tttggaaaaa	tacatgcccc	agttcctgaa	ctacttganc	cagctgnaca	480
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<210> 7627

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7627

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
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008220 69462960

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	120
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<210> 7628  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<400> 7628						
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tagctgctca	tcacagatgt	agcctagtgt	gtctgtatta	tccttggaatg	acaacgggtgt	180
catgtgacac	tatctagggt	actgtggctc	ttgtgcctga	gtggaccttg	aggctgggga	240
ggccagactg	aggggtcatt	catggaaggg	caagatgtgt	gaactctaaa	ggggatgtta	300
gcactaaaga	ctgcccagcc	ctggtccttg	gaggactat	acttgatact	gtgccaagtt	360
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gagagaactg	gccaaagttct	cttcagcact	tagcacctaa	cccagacatg	ccccttaagg	480
aatggggaaa	gttncctgnca	cccagcacaa	aaggctcaat	gggaagttga	atggtccaag	540
aaaaactntg	gcccagtngt	tg				562

<210> 7629  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 7629						
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cctactacaa	ccgggtacac	atcctggggg	tgagcacaca	gcaaaatggg	gtggggacgtg	180
cagagaggta	tagggtaaa	gcaaaggaag	cagaggatga	gaccagcagg	ccctttctct	240
ttcaggagcc	tcgaccacac	ctctttggtc	agatgttcgt	ccgcctgcag	cttctgagag	300
ctgtgcgtga	ggtgctccat	actggcctgg	ctatgctggg	tctccctcca	ctgagccaca	360
tttaaggcca	cagaggctcc	aatacctggg	aatgttcaca	aagtcacaa	ctggaaaaaa	420
agcaaaaacc	cacgggcaaa	ataaattggg	actggttggt	acaaaagtct	ggcttgncat	480
gggggaagtc	gggcatattc	ttgnaagac	ttcacttaac	cttnagtctg	naccgaenta	540
ggaaccccng	gcacaacttc	ttccctta				568

<210> 7630  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

09629469 072800

<400> 7630

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ggagactgag	gccagagag	gccagtacc	tgcttgaggc	cacacagcaa	gtgagcagca	180
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gtgctgtccc	ccaggaggac	cccagcctct	gtccagagtc	tcagccacac	ccaagccagg	300
ctcccacccc	ttgcagtggg	gccgcctggc	agcccagcag	acaggctccc	acccccatcg	360
gcagacctgt	cccctccacc	tgcgccctgc	aaaaagccag	cccggagctg	ggcccaggcc	420
tgccccctag	cctgctcctg	atgggtgcctg	ggncgggntg	gcaagtgggt	tgggctggaa	480
cctctttctg	tttctgagg	gatccttccc	acttgggaaa	aaaanaanaa	ggnggaanaa	540
naggaggagg	aggaaaanaa	aant				564

<210> 7631

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7631

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atcagcaact	tacaatcaaa	taaaagacag	atcaaagtat	aagaaaattg	tagacggtaa	180
tattttccta	atgacctagt	ctcccatctt	ggtttaaata	tgagaaattc	tagtagatag	240
tggggatgga	gctaaataaa	cgaaaacgta	aggaaagttg	agaacgggga	caaagactta	300
aagatttttc	aacgtaagca	ctattttctcc	tcaaccttgt	tcagttttta	atggatcatc	360
ttattcaaca	ggagccacaa	cctgttttga	ggaacaacca	acaactgtgg	gcctactgga	420
agttcaaaa	acgattgttc	ctgtttctga	ggttgacatc	taaatgcang	aaaattncan	480
tacgattcat	actgnacaat	cntcaaggct	acaactggac	cagaaccntt	ttcnttccaa	540
agaacctgaa	aatgatgcgt	cct				563

<210> 7632

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7632

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ttgtctatca	gagcaaaaagg	aacaaaaggta	aaaatccacc	tgaaaaaaga	tctttgtatc	180
atggaaatta	tgaagctgga	tttcttagac	attaaagaaa	ttcacagacc	cacatagttt	240
aaaaatttaa	tttttaagat	taaattttca	caacacatta	tgactgtaaa	tgagttacct	300
gaataccaat	tattacctct	agttattttt	agcaagggag	ctggacttca	ctttacttaa	360
tgctagctta	taaatttaac	tttgtaaaat	tatagtggga	aatgtgtcct	ggctagctgc	420
ctctgcccc	agcaaangca	tctcccctaa	gtgccacagt	tctatctccc	cgncttggg	480
ctccactgga	acttacctgg	gatccttntg	gccccaaagg	ttntaataag	agctcttgct	540
caatcaaaa	gggtg					555

<210> 7633

<211> 554



<212> DNA

<213> Homo sapiens

<400> 7633

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tacaggcgta	tgccaccaca	cccagcta	ttttgtattt	ttagtagaga	cgggggttca	180
ccatgttggt	caggctggtc	ttgaactcct	gacctcatga	tccaccacc	tcaacctccc	240
aaagtgtctg	gattacaggc	gtgagccacc	acgcctagcc	accaccgact	ttttttaatt	300
aacaaaagca	catttggtgta	caaaaagatg	aatctaata	cgaattactc	aagttcaaat	360
ccaagctcca	tcacctgcta	gatacagtaa	ccctcagcaa	gacactcaag	gttgagtgcc	420
ttcaaattat	atctcaaatt	acttatctgt	aaaatggaga	taatagtacc	cactcacaca	480
aatggaagaa	caattataat	taacttggta	aatggtaact	attatcttac	tggcctgatt	540
ccgaatcat	catt					554

<210> 7634

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7634

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taaaatgcaa	ccacaatttt	caaattgttg	tcacaatttc	tccaggatta	ccctcattct	120
cattttccga	cttttggcca	gcttcacatt	tgctcagattg	ttcattgcag	ttctcaggca	180
attctgatgt	tgctctgaag	gagaataaaa	gttaaaaagta	ttcactgcc	cccactctgg	240
gacaggcttg	gttgcaaaga	aaatgggtgt	cctggcgctg	aaggataact	aggaaaccca	300
tcaggctgag	ctggatagct	ttccagagcc	gaagctgaat	ggacctgctg	taacaatgct	360
gactgcgcag	ccgcattatg	ctgtaattct	tgcaaggatg	attgtgaagg	attctgagga	420
aaccacaggga	taccggggag	ggacaaaagg	cctggaaaaa	cagaactncc	tgcacttgga	480
agtccagatg	ataaccggtt	gtgcaacaag	ancggagtgtg	aaattggaac	tgatgcttaa	540
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<210> 7635

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7635

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ggaagagtcc	tttctttaag	gaaaaaaagg	gtgaacaata	aataaagagt	tacttgcgtt	180
aacggtcacg	ttatttcatt	aaaagagagg	aggagcagaa	atctatgaca	tagttgcccc	240
acatggcatt	tatctgctgc	aacagaaagc	tgtaacactg	gcgggcattt	cacagtattt	300
gcgcatagta	aacttctgcc	attgttaaag	tctgagttag	aattatcaat	gaattctttt	360
ttttttggct	ttttaaattt	tcttgnnttt	aaaaaatgga	tttgggggtt	gcagggtgga	420
acccaaaccc	agtctggcca	cgttccgtga	aagttgtggg	ccaaatggtt	cangttctgg	480
tccccttggg	ccngnggggg	gatgggggtg	gggcatgnnn	n		521

<210> 7636  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 7636  
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gntaaatcag taangatttt taaacaatac tcaangatga tattcattga aataatccaa 120  
tacattaatt tggagagtat gaacgcaatc tggcaatata aaccattaac tatgaaaaca 180  
ttctatgcct ntaactcaat aatcactatt ctgggaatcc taagaaaata ttcttatata 240  
tggattttta aaagctttat gggnaaaaaac ttttactgga anggtatttc cactttttta 300  
ttaaaaaaat tttcccctca ttttggagggn aataaatatn ctgnaaaata tttttaaagn 360  
aagaaaaagc ccccaaaata taatcccatc ccagaaataa ccactcttaa cactttcaac 420  
ttatctacca tttttnccca cttaaaaaat tatgncccga agccacagna ttttcaccaa 480  
aaggccatcc gggccccaac cttgggttct aaaacccttt taccttaaaa agggacccag 540  
gntccttgg anaacggtg gttntanggg tag 573

<210> 7637  
<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 7637  
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agggggctac acatcaccta agacagtcac agaaaagatg ggcttcagga cactgccctt 180  
tcctgccctt ggaaatggcg tgcctgggca atagggacag gccacagtgc tgtgtcgagg 240  
cagctggaag aaggcaaaga ctggggatgc caggctgtaa tgtttctgtg tggagtgatg 300  
tgaaatccac aaatggcaaa gagaagctgt aggtttgaag aggcaagggg gcactgcaca 360  
cctncaggaa ccagttatga aaatggttaa atttgatgat taaaaacaat tccatagctt 420  
tggcctgnng ctttgtgcat gggctggatt taaccctggg ntgctcttgt ggcaagtga 480  
ggccccagaa ggccctggaa ccacctgggc ttanccaagg caagtgncca aaacttttgg 540  
aatggaccng gggctntncc aatggangg 569

<210> 7638  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 7638  
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acagaagaaa atcgttttta cagacattaa gaataatttt aacagaagaa aaagctcaca 120  
tctatctana tgtggctatg ttccatggga aaaatttcag catccaaagn gcaaagaaaa 180  
aatgactgta gcttttctta ccacaaaata ttgacaatct tcccttatag cctactcttt 240  
attgttagtt gggatgccaa aggatgatat attgaccttt anaagttggg ctccactgga 300  
caaggttggg ggtatggggg ccaagcatca gaatgaattc aattttaaaa gaaaaactgg 360  
ctttgacccc aaatgaaccc aaagttcagc cagcggcaca tcagagataa atccagttgn 420  
actttcacat ttacaagggt gtgccactca acactattaa agacctaatc atcccaatca 480

aaagctccca tacttccata ctaagtctgg cctnaaggct tcccatttta tgaaagcttc 540  
ctattatgct taantcataa nggggan 567

<210> 7639

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7639

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agagaaggct gagaggaggc ctgggtccagt gtctaagggt ctctgagtga gtctgtgtca 120  
gcatgtgggc cccagctggg cctgtccatg ggttgggcac agcagtttcc tgagtaagag 180  
ccagccccac cctcagggca gcattccagc ccaaaaagaa atccaggccc tccaggttcg 240  
gcctgttttc aaggccctca ggacagtcaa taaatagggt agattctgag ccaggcctgg 300  
aaagtgaggg tattcaaagg gcaggatgag ctgctaggga tcgtaatgat tcccagggtac 360  
tctcctgccc ttctccaaca aggaagtaaa taaatagact tttaactcag gaaccgggtg 420  
ttggaacagg ggaacccttc ccttggaagt tagnaaatta agctcatggt aaaaacaagg 480  
aaccccaagc ccttaccaga tntacaaatc ctacaggatg gaagggaagg cttgccacct 540  
gggggtccca tnccagcccc naggtcctgg gggaggt 577

<210> 7640

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7640

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caaccgccac ctccagggtt caagngattc tactgcctca gcctcccaag cagctgggat 120  
tacagacgcc tgccaccacg cccggctaac tttgttgtat ttttagtaga natgggggtt 180  
caccatattg gccaggngng tctcgaactc ctgacctcaa gngatccgca tgcctcggac 240  
tcccaaagtg ctgggattac aggcgtgagc cactgcgccc agcccaaatt atatttttta 300  
ataactaata caaagggtgaa gtggctcctc ccaagtagca gtgctgccgg ggcctggccc 360  
aggcctagcc ctgggctcac ctntcatgct cccaagccaa ccctgagctt cctggntcaa 420  
gggtagacct tttcccttta aaggttann gtccaggag ctctatgana attgggggaa 480  
atgangngaa cccttacttc ctn 503

<210> 7641

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7641

cgtctcaatt gtttattcga ctacacagtca gtgcacacac tctaccatcc aaaagtcgaa 60  
gctgtgacaa tcgactgcta caggcagtgat atggatgtgt aaacaaacac aaatgaaaat 120  
gcaaatcaga gtgggcgggg ccaaggccca ctgttacatt cacagcacag ggtaagtgc 180  
aaagaacagg atgtcaggat ggggggcggg gagcacagg tccttcctgc cctggaggct 240  
gcctccaggc atcagcctgg gaggtgggtt agtgcctatg gaaccctcct gccagggaag 300  
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09629469.072500

<210> 7642  
<211> 574  
<212> DNA  
<213> Homo sapiens

<210> 7643  
<211> 549  
<212> DNA  
<213> Homo sapiens

<210> 7644  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 7644  
gcanaaaata acagctttat tgctacagat gtgagagcat ttacaaaatg ccaaggaaaa 60  
ccattccgtt ttgagtctct ggagcctgaa ctctcaccat gtaccanaaa agaatgcccc 120  
tntttcgaac tttcaaacag ttgggattat ttttgtttct tatcatccca attatttgct 180

caagtttgcc	tccattgggt	cccgttcana	gtttcttggg	ctgcttgtag	tagtcacagc	240
tccacttcca	tctcttctca	ggaagagggt	ggcacaagac	acatntgagc	cccttagtat	300
tgngatggng	gccaggaaat	gatcaaaggg	tagcatttag	gaaatcagca	aactaaagcc	360
tcaaatacaa	ggtggacaaa	tgcattctca	actcaaacag	gttgggtaat	gctttcataa	420
gatcattatg	tttttgggac	ccnggcccc	aaatttaata	aggctacaac	caggattcng	480
gaaagacctc	cagctttttc	ccaaangatg	gncaagggca	aaccaaacna	aaaggnggng	540
acccaatnga	ta					552

<210> 7645

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7645

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tggttacaat	cttggctcac	aactggaagn	gttacatact	ttttacttcc	cctcaatttt	120
atttttcccc	aaggttccat	cctaagatag	gtagatctta	tataaatata	tatacncgtc	180
tgtataagta	tggcctatag	taatgaaaat	atatagtaca	ctcttcattg	ggtagtacct	240
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gcaattaagg	ttaggggaaa	ttctttntga	ggaaggaaaa	gggtttaatn	gggggggaaaa	540
nccttnaatt	tanggccncc	t				561

<210> 7646

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7646

gatattttca	taacattttc	tttaacattt	aatagaaact	atatacaata	aatttttact	60
atattttaca	taagatagca	accacagaaa	tttacatagg	ttaaaagcaa	gacggataag	120
gaggacccag	tcctgtgggc	tgttttctca	gaggataaaa	agccagagtt	caccagggaa	180
aggggttaaa	gactgcccac	ttaagtagag	gtgaagaaaa	gctaaactgc	aggtcttcag	240
atagagataa	ccgatattag	ggccatcagt	atctcaaaga	ccactcacia	agacagctcc	300
cacctagcta	cttaagtggg	tttctatcca	tgacttggga	aatccatta	caaagatgtc	360
actttccttt	taggtatagt	cccaaataat	cccagaagct	ttgataggga	ttatctctct	420
ttctcttcct	tgccctgagt	ggggaagaaa	cccacgggtc	acggtcctca	aaattnggnt	480
taccgttnga	ctataatact	caatccngaa	gaaaaaccag	ggtaagctng	ggttgccggg	540
gttttngngag	anatgatccg	aaatcctt				568

<210> 7647

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7647

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<213> Homo sapiens

<400> 7650

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atgaaccac	ccaggcccag	ggctgggctg	ccgagcagct	gccgctgaca	tctgtgtgga	120
tttgacatgc	aacagggagt	agccacgtgc	tcgctcgtg	gccactgtgc	ttcgaaacgt	180
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ccaccgccgg	ccattctcac	cagcaatcaa	ccaaaaagca	tcagagcctc	tgtgaacctg	420
ctgtgatggt	aagaacccaa	tgtttcctaa	gctaagactt	gtatgcagaa	cacagaaaaac	480
tgcanttagg	aacaccctac	aaaattgacc	acagtatttt	ncaaaaatat	cntttacatc	540
ctttaataaa	ttaccaaaag	ctccaaaatc	ttnttaccng	gacccgt		587

<210> 7651

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7651

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gcaaaactcca	ccttccaggt	tcaagcaatt	ctcctgcctc	agcctcccca	gtagctcgga	120
ttataggcac	ccccaccat	gcctggccaa	tttttgtatt	tttagcagag	acgggggtttc	180
accatgttgg	ccaggctggt	ctcaaaactcc	tgacctcagg	tgctccaccc	gcctcagcca	240
cccaaaaatgc	tgggattagg	ctgtctcttg	agagctttac	aaattttattt	aatccttaca	300
atgactctga	ggtagatctt	cttgtctctg	tttgtagata	agaaaaactgg	aactgtcaag	360
aaacttgctt	aagatcacag	agtgcattag	gcttggatcc	ataatcaaat	tggaaaaaaa	420
gaaaaacaca	aagaacaatt	aagactccaa	agccctaatt	cttaagcttt	ggatcctatc	480
acactgnngc	attatatata	taaaacaaaa	aactttataa	taaagagaaa	tggattttnc	540
caactggggg	ttttcagata	caangggctc	atgaggacnn	tttgtaaa		588

<210> 7652

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7652

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attcaatagg	tgcactctgc	ctttccattc	ccaagcccac	gctctagagc	aagcctggta	120
tagcttttgt	tttcagttct	tctgaggggt	aaataaaacg	agtaggtagt	tttgtgaatt	180
aatattgcct	tataatttta	agtatagtac	atgaccagg	tggagtgcct	tagatacaga	240
tgtatgagt	attagttgca	ggaaacacaa	actactgtag	ctagccacat	ttaaaaggac	300
tgtaaaacag	ggaactggat	gcttgcaata	ttgtcacaag	ggctaggagt	gggttccata	360
ctgggtctcc	agaattaact	cccagaaaaa	cactgcaggt	ctgtctggct	tgccagaggc	420
gctgctaccc	cacaataatg	agaaagggtga	agaatcaggg	ttgcatccac	cacgccactt	480
gcctcaacaa	ctgactgcaa	gaattctgct	gcagggaan	tnaatggctt	cttaaccaca	540
catgccanca	gaacacagcc	angangaaaa	tgntnt			576

09629469-072800

<210> 7653  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 7653  
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acagaaaacc cttccccagg gctgtaatgg gcatttaagt ttcccaaacc cagggacaac 180  
taatttttat tacctattga atagaaacaa atggatttta atagttcccc tcccctatag 240  
ctgaaaaact ccacaaacaa taattgactc tatctacatg atctgttgac tcacgccaga 300  
aatagttact aaaacactta gaatttgtat gttcaaactg gcctctggct acttctgggg 360  
ggttatttgg tgttacgcaa cgacatattg ccagcgacat ggtgaatata ctgnctttat 420  
agtcagcaat gtttagttga ggctaatac gtttttttt tttcaaaagg gtaaattgaa 480  
gcttttccca gctgaaatat ntngaaaacc ccaatgnttg aaccaggttt aagcattggn 540  
ggtggcaccg nantgggctg atgggncctc ctg 573

<210> 7654  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 7654  
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atataaaaat ggacatcaga ttagagatac aagttcatac gctgaactga attgtacata 180  
ccaactgcct ggctatggaa acccgtgact tgacttaggg gtgctgatga catgatctcg 240  
acaagaacc cctagcaact ctcagggtgga ggcagcacag ggatgcggtt cctgggtgagg 300  
agggtcctca ctcggtgacc aactgcctg ggctcacagc tggagggctc acccatgagg 360  
gacacgggtg gacacccact gcttcacatg cctaattcac attagaaaca tgtaaagcca 420  
ttcagtctgt gcaataaaga gatcctgtat gaaatccact cattcctttc taacagctaa 480  
agctcaaagg catactggac ccttgangga aaacaggaga acctgaaatg ggaagggaag 540  
aaagggtatt cacnnttaca gagcaaaaatg ggcaacngga ccgggan 587

<210> 7655  
<211> 462  
<212> DNA  
<213> Homo sapiens

<400> 7655  
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taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120  
gagttacaag gngttattat ctacacacac cacaggaggc ttcactctag agctccgctc 180  
gcaacaaaag catcttaaat aaactgagag aagcggtttg atttgtaatg ntttcacaga 240  
agtgggatat acctaccca tatagagttt ctttatatga ctcatTTTT agcaagttaa 300  
atgaaggaag ttttgatggg gggangggag gggcaatatg gttccccacc ccctttcttc 360  
actttaagaa aatcccccaa gagatgacct cgcactgagg ggaggagggg ctgggcctca 420  
ggngctnana ccaaggnggc tctgcancac tgcttcanaa nt 462

008220"69462960



<210> 7656  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 7656  
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gcacggccgg ctgtcctccg attgaggggc cttgtcaagg cctcanaggc agcagaggta 180  
cagcctgggtg gaggggtctgg gtgtgcgctg tgtccatctg caccacacag acaccagtca 240  
tgggggggatg aaaccggggc aagaacacat gtgtgcacag gctgtgtgtg cctgcatgtg 300  
tgggatgcgt gtaggctgtg gcgggggtgg agatgaggga taggacagaa aatggcccat 360  
ccaaccccac atcctggccc ggogtgtcca aggtccctgt ggggcnagg gtttggctgc 420  
cccanacgtg acagggactt ggctttnagg gtcaaggacc tggctgggaa caccocat 480  
gaaaaggaac nnaaaccagc ccttggaccc tnnanacccc cagagcttnc tgg 533

<210> 7657  
<211> 485  
<212> DNA  
<213> Homo sapiens

<400> 7657  
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tagttttctg ngaacagngg ctgcaacctc cctcactttt gagcttttat gtttacctgc 180  
attaataacc aggataatat gcacagcagc cgtgaggcac acaatgcctt caatatcatt 240  
agaagccaca catgccttta attcatccaa aaatgacctg accacattcg aagactttat 300  
tattattcct attaaacacc ttgaaaatgg ngggaagatc agaaagatgc tctggagggg 360  
taagctcttc tacgtcagaa accttccgta actggngact tatctnaacc acaggccan 420  
cgatcagagt agaaaggtcc ccccgnggca caagggtgnc tnggtgccc gactggacca 480  
gcngt 485

<210> 7658  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 7658  
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aaataaaact cttggttatt aaagtcattc caggcatgga cagagggatg cgaggctggc 120  
cttccctgtc cacggtcctc tgaggcagct gaagtctccc atgtctggac cccgaatctt 180  
gtgcagattg aacagtggat cgggggtgct ctgagcaggc agcagggagc agctctgggtg 240  
acgcttcatg tggtagcctc actctccatt ctctgcccct ctctgtgccc caaacaccac 300  
caagagattc acggtgagaa atatcagcaa acccagatcc cagatcacca actccatggn 360  
cttaggactt ccttggactg nccttggatc taangctgag acctacaag caccgnagct 420  
tancctcttn ttgaanacac gttacctggg gccctgggca cacaggacaa angtaactg 480  
acaatccttt ggtttctgnn tca 503

000220 6946260

<210> 7659  
<211> 471  
<212> DNA  
<213> Homo sapiens

<400> 7659  
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gaaactacaa aaagtctctga taaggcttat ttacaatacc ttgggagggtc ctagtgctaa 180  
gtgcccttat aagaggaaca ctcagaggag ggttttggca gctgaattct cggtaagacc 240  
tgctttactc atcaaagttt agctaaggct ttttgtctgc agctgctggt tggtcagata 300  
ttctcaaagt agacttgtat catattgatg ggttgtagt cccttcattg ccctatttga 360  
aacttgacat gaagtttcac tgacaaggag ctgtgctgat tgctgtggan ataaggctag 420  
gttcanaggt tggganntaa gggatctgcn anatttgcca aagaacncan c 471

<210> 7660  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 7660  
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aaaatcatca aaatcatttc agcaaaaagac ttttctatca ttggggcaag ttaaaaaaaa 180  
tacaatgaaa tagaagacac tttaaaagct gtgttggtt ctcttgttta attttaaatt 240  
tagcaatacc atctcaaacc tggagcaatc ctggaacagt taccaggatc accttttccc 300  
ttcaatcctt gtggcttctg ggaatcttca gagcctgggt ctgaaagggtg tttcctacat 360  
gtctcagggc tggatgcaaa cctggctggg gacctgagca tcaactcca tttagaatca 420  
gacatctccc ttccctgcaa atgtctacaa ctaccaaatt gtccccaaca gttagctcaa 480  
tggtattgaat ttgcagaagc ccacttctaa aatggggact ggctggccat acactaagaa 540  
aaagactcaa ttatagatgc tatanggggc cc 572

<210> 7661  
<211> 176  
<212> DNA  
<213> Homo sapiens

<400> 7661  
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tcctcactg gggaggggag gagggggcag ccctcgcccc cgggccccca gggnggggct 120  
gngaggaaaa cctcccggcc ccctccctgc tncctgggag aggggggatgc ccnnnn 176

<210> 7662  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 7662

gacatttgtg	caagaggcaa	ggtgaatgca	tacatattaa	aatgttcaca	tttaatggga	60
agaccacaca	taatggcagt	ctacattgaa	cccattttca	agtatttggt	cacagattct	120
tctgagtact	gttatcagct	ctttatactg	gtaaggtagc	ccctgtgagc	tacacatctc	180
tttagcttca	aacaaaagaa	atggaatgac	cagcaccttc	ctttgttttc	aggcaagtac	240
acagaagcct	tgctgcagta	gctacatgtg	gcaagttctg	atgttgccaa	agttagaaag	300
agtttctttg	gccacttggg	tctcctaaaa	tacaagcgag	tctcttggtt	taaggtagcc	360
ttacaacatc	atcctctcaa	caacacggac	aggataaagc	cacatgggaa	tagcacactt	420
gaggcctagt	atgtgtattt	gttcagtggg	ctgacagatg	gggtttgagg	aacaaaaggaa	480
ggctttgggtg	gcacgtcagg	ttttaaggac	ggggtcctct	ttantcccg	cctangaaga	540
aggcccttac	tggggtaact	gctctgctgg	anagg			575

<210> 7663

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7663

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ttccagaact	actgtgatga	aaggaaaaaa	aaagttaa	tttccaaagg	taatgctttc	180
atgaagagtt	agaaatagca	gttttagtaa	ttagttgtag	gaattctggt	taagacttca	240
acattttacc	ttacttaaaa	gatttgcttt	atgcaacatt	taatgcccag	ttttgcatgg	300
ctctaaaaat	ctttaaaatg	caaaaagctt	tccagtgtact	ggaagccaac	acgacaagaa	360
tgaaatggta	tgacctgtga	attagcctgg	tttataaaaa	aataccagtt	cagagaccat	420
aancaaaata	aagaaactaa	gcaatcctta	aattggattt	agccttgggc	aattagcaga	480
aaaaattcac	tcntaaaagg	atcctntttc	agaatattgg	ttttttaaaa	ngtagggact	540
gggtttataa	gagtaaaaag	ttta				564

<210> 7664

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7664

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gatgtcactt	taagatcaat	ttattcaaca	aacatttatt	aaacattcat	atgccaaaaa	180
ctatgctatg	gagatgcaaa	aaataaaaaag	gttccttttc	ctgcccttaa	ggagctcaca	240
ttctagtaaa	gacttttgaa	aaataaaaca	atacagtacg	atttaagtga	catacaatag	300
aggtaggttg	taattacagn	ggtgacacga	aagtggaggt	tagatgactc	tccttgagtg	360
gagcaaagga	ggtttcacag	aggaaatgct	tatgtcaggc	ctgcaagatg	cataggaatt	420
ttncagtgg	ggaaggatga	ctagcacact	tgatgccaaa	gaggtccagn	ntttaccaag	480
gcggaaggcc	tggccaaatg	gggcttntga	aaaaatgtaa	gctgttcacc	agaacattcg	540
gggngngaac	ccat					554

<210> 7665

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7665

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	120
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nn					552

<210> 7666

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7666

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caacctccac	ctcccaggct	caagcaatta	tcctgcctca	gcctcccag	tagctgggat	120
tacaggtgcc	caccaccagg	gaaaactaca	ttttcaagg	gcattcgaga	tgccttaaaa	180
ccaagaaaac	ccaaaagaat	taatctcatc	tgattaattc	tcatacagtc	ccctgtattc	240
acttcatggc	ttaccctgct	tttaaaaaac	ctcgactgtt	tctggtttta	atccttaact	300
acctcaagaa	tccagaagtc	ttagaaatat	ctaaaaattg	tagcatctct	gagcaaatgc	360
acaggctcca	gtcaatgtaa	aattattacc	agctgcttaa	aaaaggctcat	ttgtccacac	420
cataagcaga	aaccgaggag	acaagactat	aaactagaac	caaggctgac	aggcaacagg	480
aagaaacagt	ccagatccag	gantggggag	tgggcaaanc	caagcaaacg	gcatgantgg	540
aangggattt	gaaactaagg	tag				563

<210> 7667

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7667

ccatccaaga	taactttatt	ccatttttga	ttatttgata	actattttct	tcccctcccc	60
acctccaact	gcatctccta	ctctgaaatg	cctnttgagc	agccaagggn	ggccagttct	120
gctcctcatt	ttcctgaana	anaatctcag	cctgaaagaa	tatagagcta	ggngacatat	180
gggtggccaa	ccgnttctcc	tcaagttcca	agagagnggg	caattagnga	aattccatca	240
gtcatgttaa	aataactttt	caccaggtag	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaaactg	ncttctctta	actgtacacc	cctcaggctg	360
aacgcggggag	tgctgaacac	atgccctcgg	aaggggaccc	tgaagaccca	agtgacctgc	420
ccataaacca	ccccgagggt	caaccttgct	gccagccttc	aagaaggcag	cagggggccac	480
ctgnntggaa	aacctgggca	cgggttttgg	ngncctggnc	ctggcctggc	ntcttcaagg	540
tccttggaac	caggtttt					558

<210> 7668  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 7668  
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ccacttacat gagaaatatg agtagtgaag ttgatgatag agacaaaaag tatggctgtt 120  
gctaggggag ggggagggtgg ggagttattg ttcaatgggc acagaatttg ggaagatgga 180  
aaacttctgg agatggatga tggatgatggc tggacaacaa tgagaatgta cttaatccac 240  
tgaattgcat atttaaaaat gggtaagctg gtcagtttta tgttataaat attttaccac 300  
aataaaaaca nattgaactt aaaaattcac tgaanaagcc catatggaaa aaggactaaa 360  
tgtaaaaaaa aaaaaaagcc aacttttttt ttttttaatc angagataag tccgtagctg 420  
caagctcaag gtctcgggtg aggacantca ttatgagtc tagtaaaaga caaccngttt 480  
taagaacact gtcaggcnng ctaccatgta nttctccttg gcttccatgc ttacnttttt 540  
nagactttcc agtanttcca aaggg 565

<210> 7669  
<211> 443  
<212> DNA  
<213> Homo sapiens

<400> 7669  
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ctcaatgtag tcctggccta gngaaaaaga aggcttttct ttctggcctc canagactgc 120  
ttcctttgta ggaaaaggaa caataaacac ttcccattag gtttctgtct ccagatacca 180  
atcaggggaat gactggccag gactggaact taacggcctt ganaacatgt gggattttgtc 240  
tttgagcccc attggcttgt gatgttttcc tctgncctcc ctgagacagt tgctcctgtc 300  
ctgggggggct ctgcctccac ctcccagncc aggatgtctg aggtgggttg aggctgcttg 360  
ctgccagtt tccagtctgt tctggncag ggaagcacca ccccatggcc cttgctgctt 420  
ntggcagggg ncctnannag ctn 443

<210> 7670  
<211> 773  
<212> DNA  
<213> Homo sapiens

<400> 7670  
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ttttttccct ttttttcttt tcttttttct tttcttacia catacattaa gtcgtgaatc 120  
agatgttiagg ggatgtggag atggaaggaa aattggtgac atcacatat ttttacaact 180  
ttacaacaaa tataaatctg agtttgttgc atctaccagt gtctagcaag ggtggaaagc 240  
aaaggcacac tcgggtttat ggaccctccc cccacacaca gtgggggaaaa aaactgggga 300  
gaaatactta aatgcagaag accagctcaa tacatgtggg tatttttaggg ttaacaccag 360  
aagtgatggg ttgtgggggt gtaggaatgt ggatgtaagt ttgacacag gtctccttaa 420  
cagctgaggc agtgcgcct acaaacactg gacaagacag ccgcttacgt caatgatggg 480  
tgctgcactg ccagtactct ngggagtcaa gcatgggaaa gaagggggca gggggatata 540

000220-69462960

gacccatcac	cttcctaatt	tctgcatttc	tagagaaaat	tcaaggaaga	aaacaatatt	600
tcaggttcta	ggaaataactt	cagggtttca	ggagacagag	ttcacaggat	gtgaacatgg	660
attccattca	aaagccaaan	nnaaaaaagt	aaaancacac	aaccacctac	tcctaaatac	720
agcaaaaacta	agggtcttttg	gaacaaaaggc	tnttaccccc	ctnagctaag	not	773

<210> 7671

<211> 868

<212> DNA

<213> Homo sapiens

<400> 7671

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gagatatatc	tacctatttta	tggatggata	ataccatcat	ctcatatttg	tggaatgctt	120
tatagttttt	caaagtactt	ttattcactt	tatcttccat	atatgtttatc	tcctctgatt	180
ccagcaataa	cagcccgggtg	aggtagccag	ggcaagtatg	tattttacac	attagcagga	240
aggggaggcta	agcgagggtt	atgtaactta	ctcaggctga	aacactgaag	aaaaatttgn	300
gactctcatt	tcagngatgt	tttctgcatt	attaaaaaat	attatgctac	tcctcactat	360
attatgttga	tggttgaaat	gtcattataa	agcttaattt	atatgattct	cttgatgagg	420
atgatgaagc	aaatgctcca	tcaactcact	agtttacagg	ggcaagcatt	ttcctacatt	480
tcacacataa	tttgattacc	tctgtcctaa	gtgaataatc	tactatctgg	gtatgagaaa	540
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tccttccatc	taaaacttga	tggtagacct	gnngcanaac	tctagaaccg	acttttagcct	780
tgggaancca	agaggccaaa	cctaaagctc	actttctgca	tggatgcntg	atcaaggagc	840
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<210> 7672

<211> 388

<212> DNA

<213> Homo sapiens

<400> 7672

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atgctaccct	aacctatttta	taaaaaggcc	ctgcatcaga	aattcacaat	cctaccact	180
tctaaaaata	tatttagaca	tgtacagaag	cgggtgggctt	gtttttaaat	tgtttgcttt	240
ttttgtaaaa	atatattaaa	ggtgaataga	aatcctctct	cccttcccc	tgtccagccc	300
ccagctaggg	actggnatc	aggggtaact	atctcatggt	gttctaaacc	ttgattacta	360
acactcccaa	cccctcccca	actcactt				388

<210> 7673

<211> 360

<212> DNA

<213> Homo sapiens

<400> 7673

ganatggagt	ggantgcant	ggcgtgattt	cagctcactg	taacctccac	cttgcaagtt	60
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gcagcgattc	tcattgcctca	gcctccccgag	tagctggggac	tacaggcatg	tgccaccaca	120
cctggctaatt	tttngtntta	ttagtanana	tgggggtttca	ctgtgttggc	cgggctggtc	180
ttgaactcct	gacctcaggt	gatccacctg	ccacagcctc	ccaaagtgt	gggattacag	240
gcttgagcca	gtgcacccgg	ccgactctct	accanaaaact	tttcttccaa	tatgaaggaa	300
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<210> 7674

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7674

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tactcctcta	tacatactca	cagtttagca	ttgtgtaagt	tatttgattt	gttgctttgt	180
tggaatttat	tactttgttg	gaacttattc	cttgtgggat	ttctgatgta	aaanaaaagt	240
tgatntgtgg	cgaaatgttt	tctcacattt	gttacattca	taaggtttct	ctcctgtgtg	300
tattttctga	tgttcagtga	gagtccacag	gcgacggtag	gttttcccac	attgattaca	360
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<210> 7675

<211> 377

<212> DNA

<213> Homo sapiens

<400> 7675

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ctctccatca	tctttggctt	ggantacaac	tccgtccttc	catctaattct	gcctgtctcc	120
aatcgttctc	ccctttgatg	tgnagggcan	ccactgatct	ctctaacatt	tacanaaaaa	180
tgcaccactt	gggtttgttta	aaacccctca	atgggttccc	attgccccaa	gttcaaactc	240
tgcaatgtgg	cctacacatc	tctctagntt	cacctcctgc	tcaatatcct	acagcacagt	300
gaagttcttg	gtggctctca	aaagggccct	caaacttcaa	acattccctt	caaccttaaa	360
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<210> 7676

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7676

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accanattaa	gttctagtca	gtgagtttagc	agcctaggca	cttgggcaaa	aaaattggcc	120
ctgctgtccc	aagtctctca	aanccctctc	cgtatcacca	gctagganct	ccaanactga	180
tatgccacta	cttggaggct	tgantnaaat	ccacgcgtcc	tca		223

<210> 7677

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7677

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ggaaactgtt	gagaagtgtt	cttcattaac	ctgtctaacg	acagcccga	gatcctgaaa	180
cacatggaaa	ctgcgacatg	ctaccagcag	aggctgggga	atgggggttc	tgctctcact	240
gaatgggtgg	gaaccttcaa	ctgcttagcc	tgtgctttcc	ttttctgaat	caacattttac	300
aaaggaaaaa	acaatgatta	gcactgaata	atttaaanc	acttcagaaa	atanatgtcn	360
acagtgttag	tggganaac					379

<210> 7678

<211> 376

<212> DNA

<213> Homo sapiens

<400> 7678

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aagcaagtga	ttcctgtttg	cccatcacta	tatcagctac	atagctgana	nttcagatct	180
taattacaca	acactttctc	tgttaccaga	agctaagact	gctctgcgac	aaataggaca	240
ggtngaattc	tcagataacc	agcgatcgat	gcagtggaca	tggtactcat	gggaaacaag	300
gtantttacn	aagtttggtg	ccttctggta	tattctgtaa	tgcaaact	acagggtttt	360
taatgcatca	tttttc					376

<210> 7679

<211> 386

<212> DNA

<213> Homo sapiens

<400> 7679

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gtaatcaaag	aaaatatgat	agttgaactg	taataacata	catacattat	aaagactgca	180
cataaattaa	acacaactta	gttaaacaaa	caaacaaaaa	agtatcagta	attatacact	240
taaaagaata	acatggggat	gtctccaaat	gctgaaacac	aggtgtcagg	ctcattttaa	300
aaagtgttta	aaaacncata	aaaatacctt	ttaaaacact	ggtntgcatt	cttcattcat	360
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<210> 7680

<211> 285

<212> DNA

<213> Homo sapiens

<400> 7680

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tatgtnaaca	tattcggtan	agccgatcac	ctttaaggctc	attcggaata	aacggctcctt	180



gttttcgcgg tgtgggtgtg ggtontaaca ccagtctcat tccccggga ggaangctct 240  
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<210> 7681  
<211> 380  
<212> DNA  
<213> Homo sapiens

<400> 7681  
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tgggcaaagc ggtaaaaaag gactttccac aaattaaacg anactagcct cagtagatcc 180  
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tcccgattc tccagtcaga cacacctcgt actggtagct ctgggacagg gtcccgggtgc 360  
cgctcacgtc caccatctgc 380

<210> 7682  
<211> 380  
<212> DNA  
<213> Homo sapiens

<400> 7682  
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gtagcccaca aaatatttac cactcctttc cttaattacc attgtattaa agacatctga 180  
tgtcaatgac aaaaactcca gtattaatgc ttaagagcta ggttacatta ttttaagttt 240  
tcatttaatc taacatcttc aagtcataagg gaacttttta aactaatctt gttcacactc 300  
caggacattc ccacgcaaaa aaaaaaaagt cagatcaaca gccagaaaaa aaaaccaaac 360  
aacaacaaaa accacagcta 380

<210> 7683  
<211> 379  
<212> DNA  
<213> Homo sapiens

<400> 7683  
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cctttttgct tctctgtgtt gtgatttcct aaagacaggg cagtgggtgtc cctaaactgc 180  
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ggccccatc tctgcancct catcctctcc ccagctacac agaccagat ggtcactgtc 360  
ctggaccana tgaaggcag 379

<210> 7684  
<211> 381  
<212> DNA

<213> Homo sapiens

<400> 7684

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ctacaggcgc	gtgccaccac	gcctggctaa	ttttttgtat	ttttattaga	gaccgactta	180
gccaggatgg	tctcgatctc	ctgacctctt	gatccacccg	cctcagcctc	ccaaagtgt	240
gggattacag	gcgtgagcca	cogtgcccag	cttttcaagt	ttcttaaata	catgatcctt	300
agtaaaaaca	ttttacacat	atcttcatac	aagtatatgt	atatgtggta	tacgtacaca	360
ctatagttgt	atatgcatta	n				381

<210> 7685

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7685

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tgtggtcaan	angatggtct	tcagcccca	tctggctgta	atctctgatg	aatccanaa	180
aanaaggnc	gtgtgttctc	caaaaagggtg	aaacactcaa	ggacagtga	tgccacagtc	240
ctctgctcan	aactgggcta	ggccccaagg	nccactgant	acaatgtcta	ccctatctcc	300
ttgttacatc	ctttttacaa	tatccttggg	tgatgcttct	tttcatgggg	ctattggaaa	360
ggctccaaca	ccaaanaa					378

<210> 7686

<211> 384

<212> DNA

<213> Homo sapiens

<400> 7686

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aaaaggagtc	atactaaatg	ttaatgttct	tgcaacagaa	ttttcccaat	caccttaagg	180
tagcaaattc	tggnanaaaa	tgataattca	tttcttatta	aaaatactta	aagaattttcc	240
aagattgatc	agttgtgcca	caaataaaaac	agcagtttat	tcaaaagaag	cccttacctt	300
tctcttattt	tcctaaaaga	tctgccattt	acaggtaact	actaatttca	gatcagttat	360
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<210> 7687

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7687

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aaagataact	cccatagcaa	tatttgttta	ctcagaacat	attttcactt	ccaatatatg	180

09529469.072800

taaaatttct	cacaaaggaa	cagaactcac	agtttgaaca	gaaacctcag	tgtttaaadc	240
tccacattca	gtaaaataaa	cgctacatag	taggttgtn	tgaatataaa	tcacgcattt	300
aactaaatgg	gatataattt	ctaacttggt	ttaaaagtga	agaaataatt	ttttatgggt	360
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<210> 7688

<211> 282

<212> DNA

<213> Homo sapiens

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agtcaatcaa	gcagaaacct	gaagaacctt	gttttaagat	gagagtcatt	tatacttggc	180
aggnattttc	ttccnatgaa	aaaataaagt	caatgtgcca	ttatcttgac	acttatnaaa	240
atgtttataa	aaagcattna	ggcctttgat	tctcacagtt	gg		282

<210> 7689

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7689

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tggatctgca	aagaaaaaaa	ggaaaacaaa	aggggaaggg	gattctctac	aaggcctagg	120
catganagga	nantcacatc	aagttaagta	ctgggccacg	tgacatatca	caatccccat	180
gtggacacat	tccagtaaga	caacacctag	gtgctgggcc	cagnaacata	tgactgtgtc	240
ttttataggc	aaacacaggg	tntaaagagg	ggaggggata	acaatcaaac	atctgatggg	300
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<210> 7690

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7690

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tcacctcana	cagacactgg	aacacgttag	atctaact	taagtgtttt	gaaagggcag	180
taaaaaatcc	ccaaggnaat	tcaagaaatt	gtaataattg	ctgggaanac	tgttggtttct	240
gtancccagg	gtggcttcac	agttgtcana	ggtcacaaat	tctatgtccc	tctccgacca	300
gggacctcca	ggacagcttc	cctgggttgg	tctcgantct	ttcancanaa	ggcagaccaa	360
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<210> 7691

<211> 383

<212> DNA

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<213> Homo sapiens

<400> 7691

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tctgctgacg	gangccaggc	cacaagggga	caacgctggc	accaggccca	gtcacctctg	180
taccactcgt	tagtantctg	gttggtggcc	gccanataca	ggacaaacaa	caggtngccn	240
cccaggagga	agctcagaac	cacgacaaag	cccagcatga	anacaatccg	tggaagagtc	300
aggaacaggt	nctgaataaa	aaagaccgtg	tccataacat	ggnagggtgc	caaggatcatc	360
natgtaagtc	tcctggtata	aat				383

<210> 7692

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7692

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn					379

<210> 7693

<211> 418

<212> DNA

<213> Homo sapiens

<400> 7693

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
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<210> 7694

<211> 458

<212> DNA

<213> Homo sapiens

<400> 7694

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accaancgca	aacgtgggtg	acacgtggcc	ccgctctctg	gaccctcagt	gggaaaaagt	120
ctgaggctgg	cgtctctcac	caaacccccc	ctcccctggt	gggtcaatac	tgatctggct	180

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gagtgacagc	atctcgtgac	ccaggctggc	cctgggaang	cgccacaggc	gangcctgcg	240
agtccagggg	agcaggcaga	cgctacagt	gccccgagc	gcgccagggtg	ccagcctcna	300
cgtgtnaatg	gcccgtgctg	ggcgtgctg	ggaaagaaaa	caanaagggtg	agggctcgtc	360
ctcaccaagt	gcttcctgan	tgccgtanga	cgtgggtggg	acatggggac	agtgagggtg	420
ncacaaacag	caacgaatgc	acaaagacaa	gttccagn			458

<210> 7695  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

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tataattgcc	agggttgang ccacagtana ggcacacagg aagtggtaaa ntancagcct 180
ccctccatcc	tcctacctcg ggccaaaggg aggaaatggg aggaaggaca attntacaaa 240
ggaanatgga	aaatactgga aaggcatact ccacctttta cttaaattcct gaaagcccct 300
aaatgcctca	caggacanat cactctcaca cctcctggca ggacanatca ctctgangcc 360
tcctggcagg	ataaatcact tccatgcctc ctancaanat 400

<210> 7696  
 <211> 601  
 <212> DNA  
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<400> 7696	
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atcatatttg	tgttttgcat aaaacatgca ttaatatgtt ggccaaaatc agtctctaca 180
aaaagagaca	gtccantaca gtcaataaga aaactanttg tgaacaacag gtaaaaaaag 240
aggtttccag	ttaatgtgaa anaaggaata gtacctttca taaaacaagc ccttcagcgc 300
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ggtcctgatt	ggtcatagga agtaaggac tttctggtan ttacatcaga tatttgagaa 420
gattaaaagt	tttccggaca tgatggtata ctaatagtgc aaccttgcaa aaagggttcg 480
aaacattgtc	agacttgga aantcccan cttgataaac aacccccaaa gacaccccga 540
gcctttgaac	ggagcctctg cacaaggcca ctcaaggntc accatttntt ctgtgggccc 600
n	601

<210> 7697  
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 <212> DNA  
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taacaagata	tagacatttg aatgccaatg tottattctg gagagacact ggagctgaag 180
ttcaacaatg	atcacactta ttacctggca ataaaaacac aaccatcttt ccagtcagggt 240

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caaaatatcc	tactttttgc	ctttctacca	aatcccaaac	attcacagtt	tttcaaggac	300
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gaattaaaga	tggaagga	gattacatcc	tcaacactga	cagcttccaa	gacttagaaa	420
agagattgtt	ccttgcttct	aaaattgttc	tattttccnc	tgtagggaaa	atgaaagttt	480
tttcttacia	atattgaata	atccaagtac	ttacgcnaaa	ttaatcctgc	nccccatgan	540
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<210> 7698

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7698

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cgggtaaata	gctaagccac	tcttcaactcc	cagcacagac	cttcagaagc	cccagatatc	180
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caanccttct	gctccttggt	cccctgccta	ccattaggac	acaatgttct	tcgtctggcc	300
anacatctgt	tgaaaggctg	gatacaggac	aacgtaccca	tctttccatc	tatatcaact	360
atcctaggtc	tctgataccc	catttttgag	cactgttgaa	gtcantctct	ggaggtagtg	420
ctgacgcaaa	aggggcaact	ganaataaan	ctcaaanccc	tctgggaacg	tngaaattgg	480
gaagcttata						490

<210> 7699

<211> 358

<212> DNA

<213> Homo sapiens

<400> 7699

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ggagctctgc	acggggcaag	gagtgcattg	tgggggctga	ccgctcattt	ggctccttga	180
atctctttct	gatttctatc	tanaanctcc	cgggcaaggg	tagggcctat	gtagggactg	240
ggggtggatn	aagcgcatgg	cctacagtgg	accactccaa	nacgtgggtc	cctgggtgcca	300
cgggtcacac	atctctcagg	cggaggcact	cananaangt	aaagctttcc	tancccaa	358

<210> 7700

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7700

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acctctgcct	cctgggttca	agcagttctc	ctgcctcagc	ctcccagata	cctgggacta	120
caggcacacg	ccaccatgcc	tggctaattt	ttgtattttt	agtagagatg	ggatttcacc	180
atgttggcca	ggatgggtctc	catctcttga	cctcgtgatc	cacctgcctc	agtctcccaa	240
agtgccggga	ttacaggcat	gagccactgc	gcccagccaa	aatcacccaa	ttttaaaata	300
ctgattcaaa	aacaaaaatt	ccacgatgta	ngcctaacag	aacttgatag	gtanaaattg	360

009240.6462960

ggggaggcca	ccagtttgtg	acccctcttg	taaatgagga	tgatacttac	ttggcacaaa	420
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ttgccaaaat	ngaagctttt	ctgtgtatcc	aaatatattg	ttcaaaattc	tcccaccagg	540
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<210> 7701  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 7701	
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atgttttaat	aaagtgccac
canaccaggt	taagggggcc
gatctgtgaa	agtttcaaat
agcccagttc	tttacacaat
actggttttt	gtgaaatfff
tgtttcaatt	gcaaacttat
tggtacaata	aggataccac
ngtccacgat	ggattcaaaa
anntgggact	acaggtgtgc
tgagtatcan	actgatcaaa
aatgagaaga	tcatgaaaag
cagtttttcc	nagtaagtcc
gtnnacgcca	tcatgtctga
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tgcttttctn	cttggtnaan
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ggattcagat	tcctgggctc
acaggtgtgc	accgccacac
ctgaaaacat	cccagaactt
tgacatcaga	tgaaagctga
acagaccatt	tgataggcta
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aatgg	

<210> 7702  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<400> 7702	
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agaaatggga	agtcttgggt
caagggggct	ccctctgctt
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ttcnca	
tgcatcag	cagggaaact
tcanaatgct	tttggctggc
gggcattgtc	cacccttgg
ctgctgcggc	cttccctcct
acatggctga	ngtnatcanc
cagcaccatg	tnggggaaga
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<210> 7703  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 7703	
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ttttctcggt	gcacctcagg
ccaatgaatt	tacctgttcc
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anacttaagg	aacagtcana
ggctatgatt	tttaaaaaag
tacttcatga	tcctctgaac
gcacccctgaa	ccccctctct
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aagaatccaa	aacaggtggt
ggagcaaccc	cgcaaaaactg
gcctatgcct	gtcgtatctg
ttaggctagg	cantgtcact
tttaaactcg	agaaagcaat
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c 541

<210> 7704  
<211> 332  
<212> DNA  
<213> Homo sapiens

<400> 7704  
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aatgcnaaga actgagggtc ggccaacccg ttnaaaaacc tttccanan tctgaaaaca 180  
aagggttaaaa cctctcccta ggtctgaagg cggaaacagg ccggcttcca aaaaactatt 240  
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ngacaacccc ccctaccctt aaaaacntct ga 332

<210> 7705  
<211> 426  
<212> DNA  
<213> Homo sapiens

<400> 7705  
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ctggtangga aaggagggtat nanagtgggg ccctcaaaaag ccttggcacc anaaacacag 300  
tggttgagtg actctgcgga tgactcccca aaaaccaggc acccggttac agagctaaga 360  
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tcaagt 426

<210> 7706  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 7706  
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agataaacac actaaaaagc agcttacaca gatgtgttgc cctcttcacc ttggatgtta 300  
caaaaataaa gatgtgaggc tgccctgctc tgccataaagc atggcttgaa ctttcaattg 360  
atagtaaccg cttatgaaaa atattacatt acataatctc ctgtgtattg aaattgcaca 420  
agtcagagca tccnaaaact gcaagagtca atttcttcct atggggaaaa gcatatanat 480  
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<210> 7707

000270-69462960



<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 7707

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tgatctatth	agcatctgta	ataagtgatt	tatagttata	tatgctaaat	aaagggtgac	180
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aaaaacaaga	actggatcta	ggattttatt	ttaaattatg	gaagtctctg	gggaaaaaaa	300
atagcaatgg	aatgacaata	gatgtcagat	atttctctga	gaagtatata	gtttctcaat	360
tttcgctagg	tagtgcatcc	caactgaatt	aaaactaaag	catatttaca	gtgcattttt	420
tctcactaaa	atttcccaat	tctaaaatgg	tctggccagg	cngcattggc	tcagcctgtt	480
atcccaccac	ttgggggaagg	ccaaggcagg	cggatcccaa	ggtcaggana	ttgaanacaa	540
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<210> 7708  
<211> 611  
<212> DNA  
<213> Homo sapiens

<400> 7708

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<210> 7709  
<211> 297  
<212> DNA  
<213> Homo sapiens

<400> 7709

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ccagtgtatt	tttcaccttt	agtttcttgg	ctcctctccg	cctctacacc	agcctcatat	180
ccacacggga	tgctctctgc	tgagtattgt	cttgagttag	ttctccctct	catgttcttg	240
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<210> 7710  
<211> 475

000220-69462960

<212> DNA

<213> Homo sapiens

<400> 7710

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agaaaaaaga	catagtggaa	aaatTTTTga	acggatatgc	TTTTgttga	ataattacag	180
taattactac	caatatattc	agaccaacaa	agattagaaa	gaacatgcaa	aatgctgaga	240
aaatttctcc	tacaattaaa	acaaatgtgt	ttttatgaga	gagaaaaaaa	taagtcnagc	300
tcctaaaatg	aaaattacaa	aacatnggga	ttaacaattt	attaaaaatt	acccttgat	360
TTTTtgagg	ccaaaaaag	tngTTTTtt	aaaacaaggg	catgaaaaag	acttcagatt	420
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<210> 7711

<211> 303

<212> DNA

<213> Homo sapiens

<400> 7711

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gtcctatgaa	cataaatagg	tctgttttag	aatataaatg	gtagtgaact	cctgcgctcc	180
tgaggcgggg	caaaataatc	cataaacaca	taatccttct	gggcaataat	ntttctggac	240
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<210> 7712

<211> 477

<212> DNA

<213> Homo sapiens

<400> 7712

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gtttggaatc	agaattccag	gtctgactcc	cagcanactg	ttctatttcc	ttacacacct	240
gcactttcat	caatcttctc	cagctccaat	ttcttgtgcc	ccttcaacag	catctggcac	300
agganaatca	taggctctcg	gaactcggcc	tgacagatgg	cgcagatgtc	accagcttct	360
gtgcactgct	gcccgggtggc	tcggactcca	tanttctgaa	aggtacanag	aagcttcagg	420
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<210> 7713

<211> 618

<212> DNA

<213> Homo sapiens

<400> 7713

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cgacatgcat	cgcgatcatga	gattcaacgt	atttgagct	gtgacttttc	tgcagcatgc	120
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catgaanagt	ttgccatact	cagtttgtaa	gaactctctc	atgaatgaat	tctctcatgc	420
tgtgcaaggt	gtgaattatt	actaaagatc	ttaccacaca	catttcacat	gtacggttct	480
ctccagtatg	gattctgtga	tgattgccag	gtttgaattt	cnaatgaaat	ccttacacat	540
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<210> 7714

<211> 513

<212> DNA

<213> Homo sapiens

<400> 7714

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gaccancat	agccaggcca	gtatggagca	cctcacgcac	agctctcana	agctgcaggc	180
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tgagtcaactg	gcccactctt	ttgctcttgt	gccccaggcc	anaataaaga	atanagtgtg	360
naatgtcctg	gttgtctatg	cctcaccatc	tctgtgcgta	cagcaatgtg	gaccccgggg	420
ctgtgcantc	cancactgct	gtccgggtca	ncanatccgg	aaagggaag	atactgttga	480
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<210> 7715

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7715

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atgggggtca	caaaagtggg	ggccttgggc	ccacacattc	aaanaaaatt	cccaaaantt	180
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<210> 7716

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7716

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gtagtaaata	tgctagcata	nacaagttcc	ttgtgttttc	caacagggtt	gcttcaaaat	120
caatccttac	agcttcaana	acaggagaaa	ctcttaacaa	agaaagggtc	gcaaatttat	180
taccacaaat	tctaagatat	tgctctttct	ttacctgcct	agaggcagcg	ggatggacta	240

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ggtatataaa	ctgtgaaaaa	gggtttctat	tctctctgaa	agcacatgtc	tgtgttgaac	420
atttcagtaa	atttattttg	aactcaggat	ttcatgtcaa	tttttacaca	cttgattttc	480
caaatacacat	ccaactcccc	accccaaaacc	acatacatcc	aaatcaactc	ctgttaccct	540
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<210> 7717

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7717

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nattatagaa	agttttataa	agaatgaagt	gtttcctata	tttcttttaa	aaaaccttgg	180
ttcatcttga	aagatcgatg	aatttttttaa	atatcagaag	aaaaggga	taaaattttc	240
cccccaaaac	acataagaac	cacttactgg	cacttgtatt	ttaagtacct	gggaaaaaaa	300
cggaacagat	ttttaaaaggc	aataacgact	tgtaagacgg	cttgtttcat	ttgatttggc	360
acgaagtaaa	gtaagagtaa	atatgccatg	ggaagacata	atcaagtttt	tcctccatct	420
ctcatatttc	cccacttcta	ccagaccaca	cagtacatca	gcaaccatcc	tttanattcc	480
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<210> 7718

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7718

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tttactagtt	tattgaatat	gagggtttatc	catttagcaa	tgtaaggaaa	acttttagttc	180
tgtttctcag	ttatcaggag	tgaacataaa	actattctaa	accacaatta	gtttaccagc	240
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ggggtaaaat	tactattttgt	tcaaagtaga	ataaaaggga	aggatgctct	aattaaacat	420
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<210> 7719

<211> 260

<212> DNA

<213> Homo sapiens

<400> 7719

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tgcagcagca	gaagagcggg	aagtgtacca	cagcttggct	caagggcgtg	gtctggactg	180

gggacnaang gacagaagaa gaagcaaggt ctgggtgaag gcaaggatgg gggctaaaag 240  
tgggttcctg aagcntgccca 260

<210> 7720  
<211> 527  
<212> DNA  
<213> Homo sapiens

<400> 7720  
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caacatatac aaatactgag tgactacagt acatgccgag gtaanataag tacattctgg 180  
ganaatatca ctgacgctca aaccattttt atttccaata tgtatttcaa tacatgtttg 240  
tttccacttt tcccagtgcc acacacacac acacaaaaac aaaacaaaac aaaaaaaaac 300  
agtcncaagt tggattacat tanaattggt gccacagttg actttaaaag cattttaata 360  
accacccnac tcttaaattt tgcagtttag ggacttcnag ttcagaacca aaaagcagan 420  
aacgttcatg tgacatgatg tttctatana cctcttgctc tctaagggtga caatgcaaaa 480  
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<210> 7721  
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<212> DNA  
<213> Homo sapiens

<400> 7721  
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aggaaaattc tgaatggtt acaacagtg acataaattg cagggtggctg gggccgtgtg 180  
tctatttgat gcttcccana atgtgtgctg ctagtaccca tttccaccat tcacatattt 240  
aacattttta ttanactttt atttagcctc atcataagaa tataaggagg atcatanatt 300  
tgatgtatga aattttttaa ttcacactaa aatacattac gattaaaatg aattatcttc 360  
naccaccgt tttgctatct tttgctgagt aatctgtgcc agtccttggtg aaaaatcttt 420  
attttaanaa aaaaatttag tttacaaaaa aatttaacaa gtttccnctt aacaaaattc 480  
ccccggnang gaatccngt 500

<210> 7722  
<211> 474  
<212> DNA  
<213> Homo sapiens

<400> 7722  
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ctctgaaccc ttcatcatnt tctcacccaa ggaggccatg ctatggtgat tttctggcat 240  
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gtctacanat aggtcctcat atgccacagt atccgaaatc ccactgggga ggtggtgtgt 360  
ccctgggggtc ataaggang ctccangtg gctccanggg ctgagcccca ctgaaagggg 420

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<210> 7723

<211> 526

<212> DNA

<213> Homo sapiens

<400> 7723

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gaccatgcat	ccttaaaagt	attgcatgag	catctccacc	tcagtatgga	anagggatgg	180
acaacccccct	attcatacct	ctgagttcct	gatggcatta	gtcatatagg	taagtcattct	240
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tggcaaanat	atcacaagga	gttggttaata	anatttaatt	ttccagtagc	ctgcatgaat	420
tgtccccaca	taaaactgta	cagtttagtga	ctgaattgtt	tacttaantt	cccagttttt	480
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<210> 7724

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7724

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ctcctgcatc	cagctgtttt	tattgcaaac	tagctccttt	ctcccacact	gggaacttta	180
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ataccnngtg	gactgcaacn	ttgaaaaaaa	gttgggggtt	angaagaacc	nccctgccag	480
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<210> 7725

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7725

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gaaatttcct	aacacttgat	tttaatacat	tgcgctaatt	ttctaaaaca	actcagagga	180
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<210> 7726

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7726

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<210> 7727

<211> 497

<212> DNA

<213> Homo sapiens

<400> 7727

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taaaatgtta	aacatggagt	tttaacccaa	caattctact	cttttatatc	ccaganagct	180
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atggaatgtt	atttggccat	aatacatgct	atatatgaag	tacttaacgt	ggataaacct	360
tgaaaacatt	aagtgaagaa	agctcatcac	aaaacttcac	gtnatatgat	tcattccatt	420
tatagaaaat	gccanaaca	gacaacctat	aaaaacaaaa	aatgggtcnt	tngccaaaat	480
aangggggaa	ggttggtt					497

<210> 7728

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7728

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tcctgatgat	caggatgccc	aagctctgaa	tccaactgct	gccaccaana	naacggctcc	300
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<210> 7729

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7729

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agaaagactt	caaaaatgag	gttactgtga	tgtatcataa	aaggagttaa	aattcaaaat	180
atcaaagacc	tcncctatcg	gactaaacat	aaatcttaaa	acctcctatg	gtcctctgag	240
cctaaaatta	caaaacttag	caactgctta	aaccaaggaa	ttaacggttc	tgtgttttca	300
aggttaagaaa	acaaaaaatg	ctttggtaaa	ctacctttta	tactagttaa	aatgtttctg	360
ccttgtttgt	atctctcttg	aaagactgta	tataagtaca	ggcacagcat	ntatttgaga	420
aaacatctca	caaatttcat	ttactatang	tttctcaata	atctttacat	ttaatcaatg	480
aaaaaaattg	atccatccnc	ttgaatttta	ngttaaaaaa	attnaaaagt	nttccaaggg	540
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<210> 7730

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7730

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 7731

<211> 317

<212> DNA

<213> Homo sapiens

<400> 7731

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agcacccagt	gcagaggcat	ttccaaacca	gaaacaccan	atcttcaccc	tggagtggac	120
agagggggagg	atgccacctt	tgataggact	ctgcanagcc	cagcctggaa	ctgggaaaaat	180
tctggctggg	gaagccacag	gcatcagctg	aggggtcatg	tccggacccc	aganaggccc	240

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aganagaggc tgagaanagg agcaccocgg gagtggggga gcagggganc ctgtcggggg 300  
anctaaggag gggctca 317

<210> 7732  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 7732  
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gcagcaaagg ggatcagatg atttctgtta acgtgtgtat aaaggatgaac tataattact 180  
ttgtgtttac ttctgtgttt tcattacttt cacttactcc cagatatcac tggaaccatg 240  
caaatactgc ttattcccta atgtgggtttt gaaagactgg gaggctcaga agcaagtatt 300  
atgtctgtcc gtacatgtcg tttaaaaaat tattttttta agccagtcaa attgagtagt 360  
gggcaccaag cccagcctgc ttctttactt tnnctgtttt aatactatat attggattcc 420  
taaagtgtat atgttcacaa aactttttaa aaatgaggaa atgttttaan aanttttgag 480  
gatgaatgan taagagcccn cccnggtcct tgcca 515

<210> 7733  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 7733  
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gagtgatcta actaacttaa gctgaccctg cgaactggctg aggataatcc cttctgtcca 180  
ctgcaccgtg caatgccaca ggtcatgana tggtcagttc ctcttgctct gtgtcgtctg 240  
aagcaagtcg aggccctact tctggttccg ccttcttcc ttgggcttag atttgctggg 300  
ttagtanntt gctactattg tcaagactgt actgtccctt taaggtagca catgccacca 360  
tagcttacac agcagtcctt tagtacttta tccacctcct gtttactgag atcttctcca 420  
cactcttgag tcaaccgaga ctggatcatg tttcggcgta cccggttaatt ttgggaaaaa 480  
atttcaagca aaacctgtcn atgctgatac tcatntntcc aaantcccca aaaggnaaa 539

<210> 7734  
<211> 335  
<212> DNA  
<213> Homo sapiens

<400> 7734  
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taaataataca tcaagtaact ttacagcaca catttttttag ggccaagggt ttgatctgtc 180  
tggaacctca tgtgctctcg gagaggcagc cacgttagca gcagatacct tacagcttgt 240  
catctactca nntgatggcc aacaaaagct tctgaactcc tcctggggag gtagctgaca 300  
attcctttcc agggatgagg actanaaana accaa 335

003220" 69462960

<210> 7735  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<400> 7735  
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 aacagaaggg gaccgagttt gtgcaaacaa aaagcgcaaa atagaagang cagcattgtt 180  
 ttataacaac tcaactctctt gggaactaac cattcccagg agaaccant ctcagtgtca 240  
 aganaaagat gttaatccat ctttagcaacc taattacctc ttaaaanttc catctccaac 300  
 actattacat ttggcaattg aactacaaca tgagttttgg agggggccaaa caacatgcaa 360  
 accatancan cangttttaa ggtaaaaaa tggganaaaa ntcccagaaa gatttcctgg 420  
 aa 422

<210> 7736  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<400> 7736  
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 acaacgcagc attttcataa taaattcaca aaagacaata caaggaaaca cctactgaat 120  
 agaactctgt cgagcaattc atgtttttaa gttggactct ataccaaaact ggcatatgg 180  
 tattataggc atttgatatt tgttttctta ttttcagttt gtcantttct ttactaccat 240  
 tatttttttc tagccgggaa anaacgtttn atccnnaa 278

<210> 7737  
 <211> 565  
 <212> DNA  
 <213> Homo sapiens

<400> 7737  
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 agagccagaa ttctaagata tagccaagat tctaagattt aaccagtatt taaaatacat 120  
 gcatttaaaa gaaatccaga acaaacagca tatgaatgtt ctggcatcaa aacagggcc 180  
 ctactttaca gcttaacctc ttctctttaa ggggatctga caacatgcca aacttttggt 240  
 totcaactgt ttggttaaaa tttttttaa aacagaatta taatcttgag tnatgaanga 300  
 aaatgcatgg attgaaacct ccctgtgggt tataaaagtt acagaagaga tttatgcttt 360  
 ttattactaa actcagtttt aagcattccc tttgtgtccg aaaataaccn aganggaaaa 420  
 ttaaaccnc ctgggaactt ggtcttgctt tccatgtcca acttctcaag ttagtccaag 480  
 ctcttncctt atatattccc cgtgaatanc caggtgacaa aaattctttn taaaaaaaaa 540  
 actggnntnt aattaacaaa aagaa 565

<210> 7738  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

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<400> 7738

agcaaaaagt	anacttttat	tacagcagca	actgangcga	atcgaatggc	ccccagggn	60
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ggctccccta	ntgcccgtgg	gcctcctttc	cacacaggct	gggcggganc	cggcaaatca	180
acgantaacc	cccaactaaa	aagggggtn	ctgaaaaagg	cccaggccca	cntctgtgca	240
aaacaagtna	acaaa					255

<210> 7739

<211> 271

<212> DNA

<213> Homo sapiens

<400> 7739

aaaacaacac	acatttatta	cctaaaagtt	tttgtgaatc	aataattcaa	gagcagcttc	60
ggtgggctta	gaatcgctca	tgagttgcag	tcaagatgcc	agctggggct	gcagttgtct	120
gaangttctg	tttgggctgg	cggatctgtc	tctaactatg	gtcactcaca	cggccactga	180
caggaagtct	tagctcttca	tcacagtcac	atgggcatct	ccatggagct	atgtggtatn	240
tncnccncaa	catggcagct	ggcttgnct	a			271

<210> 7740

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7740

agttttncaa	agtactttta	ttcaactttat	cttccatata	tgttatctcc	tctgattcca	60
gcaataacag	cccggtgagg	tagccagggc	aagtatgtat	tttacacatt	agcaggaagg	120
gaggctaaac	gaggtttatg	taacttactc	aggctgaaac	actgaagaaa	aatttgtgac	180
tctcatttca	gtgatgtttt	ctgcattatt	aaaaaatatt	atgctactcc	tcaactatatt	240
atgttgatgg	ttgaaatgtc	attataaagc	ttaattttata	tgattctctt	gatganggat	300
gatgaagcaa	atgctccatc	aactcactag	tttacagggg	caagcatttt	cctacatttc	360
acacataatt	tgattacctc	tgtcctaagt	gaataatcta	ctatctgggt	atgagaaaca	420
tgatttgaaa	aacactaaac	cactatatta	tttcaacaaa	gaaccacttc	acacctaant	480
taaaaggaac	ttcaaaaaaa	ntcctaacca	aaaaaatcc	aatgatgctg	aatccantc	540
aaaat						545

<210> 7741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7741

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tcaatgggat	aaacaaatga	tgatatatac	aatgaaatac	cacagtgcga	tacaatgcta	120
aaaactactg	ataaatacaa	catgaatgaa	tttcgaaaac	attatgctaa	gtgaaaaaaa	180
tttagacata	ggagcatata	ttgtgcaatt	ccatgtat	gaaatctgaa	cacagacaac	240
actcgtctat	atgacgggga	gcagacctgt	ggttgcctgg	ggcatgggga	atcaagagtg	300

gggactgact	acaaaaatca	caaaggaact	ttttgggttg	atagaaatat	ttgatatcct	360
gattgcgata	gtgatggta	cttaggtgta	tgtgtctgta	tatgcattan	tctgttttca	420
tactgctata	aagaactgtc	cgagactggg	taattttataa	aggaaanaag	tttaattgac	480
tcccagttcc	ncaggactgg	ggaagccnca	ggaaacttcc	atccttttta	aaaaccnaag	540
gggaacccaa	anccccc					557

<210> 7742

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7742

gggttcacaa	aggattat	atcaaattat	tgcaaacggn	anatagcttg	tgacanaaaa	60
tttccttggn	tctggaaaat	aaaacattta	cgtcataaaa	acatccttat	aaattaattt	120
tacgtaatta	atcttgtttg	gcttgatctt	aattagcaat	ttnggactat	agctgattgc	180
gaacgcttcc	aaagaanaaa	ttaaaataat	aactgtgaat	gacaaaaacc	cagaacagcc	240
ataggtaaag	atctgattaa	cattaccaat	taaccaggaa	atttaagtgc	ttctgtggca	300
tacaatcatc	caacataaaa	attgcaatta	ttacaggtat	ctcagcatgt	cagtatctta	360
ggaatctcat	aaaatttcac	atttctataa	atgatgaact	tacacaaaac	cagcttaaaag	420
aaaggtaaaa	caccatttct	tatttgacaa	tgcttcnagc	agtatttgcc	aaataaaacn	480
aatcattaat	aactnntcca	aaaaaaaaanc	ccttggg			517

<210> 7743

<211> 412

<212> DNA

<213> Homo sapiens

<400> 7743

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gaatgcatgt	taaaaggatt	tgtacagaca	caacactctt	actttcaaan	agcagaggaa	120
cattttatat	antgaacaca	tacacactgt	ggcaatgtna	aactacttaa	ggaaggaaaa	180
atatccccct	ccccanccag	gtactgagac	ctgggggctaa	aattttttgt	cagtcagccc	240
ccatccccat	cccttatctt	cgagtgcctt	taccaggaaa	cctggctttg	gtggaaagga	300
aagctgtggg	gcttggggac	ctgatgcctt	ttcttttggg	angaaagggc	acctgcacna	360
tccacaggac	agggagtggc	cagcancat	cctgagctga	ggctcccnna	na	412

<210> 7744

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7744

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catgtagttc	cttgaacgta	aaaccacaca	ttaaaaatgt	tattccactg	aaaatgactc	120
ctatgcaa	atcgacatgt	gatgtgtgtc	caa	aatgccag	agcattttga	180
ctctacaa	aaaattaagg	tataagctga	gtcagggatg	atccgattcc	caccccanga	240
aatggcccgg	agctgcacca	actcancgag	gttggagctg	aaaccctgag	ttaatgatca	300
aaagggacaa	gacaggaagc	ctgggggaccg	tggacaggga	aagtgcgcan	ccctgattgc	360

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cagtgggcgg	aacaggggtca	ggctcgggga	aaacangaag	ggtggtgggc	ggtgggccct	420
gaacaaaaca	ggcctggccg	aagctggggg	ccactgtgca	ctgaggccaa	aagaacaggg	480
tggtgggggc	anntttggaa	angaacaaaa	aagggccnaa	aaaaaaccn		529

<210> 7745

<211> 428

<212> DNA

<213> Homo sapiens

<400> 7745

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ggttttactt	gcagtacaga	ttcttttcat	tacagatcac	aaaaatacaa	tacaatgtga	120
caagcccagt	ttaagaatta	catgcagtag	ctcatattaa	cacaaacagc	tccccacgaa	180
ggccgacaag	agctaaatcc	ggtgtcaaca	gggttcattg	caggagtaga	ataatccggt	240
acaaggaacg	agaacagatt	gaaaccagaa	acaaagccat	gcctgacagt	caatcaaggt	300
caatctgata	atttccatga	ccaattaccc	ntgtgaacaa	ttcaaaatga	cgggtggaana	360
ctgagcacc	tgtaccacaca	cacgatgccc	ncagcttggc	anaangtgca	ccaaccttgt	420
ttgaaaaa						428

<210> 7746

<211> 247

<212> DNA

<213> Homo sapiens

<400> 7746

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actgaaaatg	tttacattta	ctaataagga	atgccaagcg	tatccatcac	catttgaata	120
gcttgcaggg	gatttgtgat	ttcttccatg	ttatctcttc	ncaaaaccca	atctggntta	180
agtcttgaag	ctattctggt	ccttacaggt	gtttcnggga	taaaaggaat	gottatanaa	240
aaattcn						247

<210> 7747

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7747

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 7748

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<211> 156  
<212> DNA  
<213> Homo sapiens

<400> 7748  
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gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaaggtgg 120  
aaggggctac acatcaccta agacnttcac anaana 156

<210> 7749  
<211> 501  
<212> DNA  
<213> Homo sapiens

<400> 7749  
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gacactaggg gagactcaag taaaagcttt gacctatcac tcactttttc ctagcaagan 180  
atagtgttct tcaaagcact agcttggata aaaccaatcc tganatccta agctggctan 240  
aaaaaacaaa atcttcccca ccgctcaaac aactggcctc tttccttacc tttcgcaaaag 300  
caatgaactt aatgcactag gcattagcaa agggaaatcgt tcactagctg cttccatcac 360  
tgggcctgcc aatgtcccag cacttcacac ctgggaacac aagtgttatt gncacaaaaac 420  
acacccaagt gtgctatcaa cacttgtgtg gaaangaaaa naatttctaa aaaaatgtca 480  
ccctcccagg nccnaaatta a 501

<210> 7750  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 7750  
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cacacactcg cacacactca cacgcacaca cccttcagg aggggcgtgt ggctgccttg 180  
gagtcgctgct agggcccaaa caagtgatac tgggcttgcc aggcagttgt gaggttttgt 240  
gttttttgct tttaaaaaga angccatttc ctccanatgt gtcctccctc tccccaagcc 300  
ctaaaactcc tcccaaaaac actctgaaaa aaattttttt aaaacaagag gttttccttt 360  
gctctggccc aagtagtttc tggagantcc aggcccatcc acaagtccc tgcaggtcct 420  
aaaacacnaa aaccgggctg ggccttggtc aggcctgcaa ctgtncctc tgaaggga 480  
aagggaagcc tatancatcn aaggcacctg ccaaaataaa gaaaggtgtt gttcctctcc 540  
ccccaanggg gctgccnccc cctgggttnc aaaaccctcc aaaattt 587

<210> 7751  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 7751

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acaccaaatt	tctgcaactt	tataataatg	aaaattagaa	acaacctaaa	tagttaacaa	60
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aaattatgtt	tttgtaaaat	ttttaatgcc	ataagaaaat	gtggcaattt	tgcaatgaaa	180
aagatctact	tataaaactg	tttacagtat	gactccaatt	atgtaaaaaa	agtatacaat	240
acacatatag	gcatacatgg	gggttgcttt	ttaaagggtg	ttacttctgg	gttgtgatat	300
tatcagtaat	catttttgc	ttttatata	tttctgcatt	tttcaagttt	tctatgatga	360
gtatattatt	ttacaaagac	tacgaaaatt	ttcctctgat	atactggtaa	ttanaatgta	420
cttgggggat	tttaaataa	tgggaacaat	attataatgc	tccanctcca	agactttttg	480
ggaatacata	tcacttnggt	aataaactac	atccccgttt	tatctgttaa	caaattttta	540
ttaaacagtt	natattgtga	taaaacatgt	tgc			573

<210> 7752

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7752

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aaccagacta	caaataaatg	tttgttacta	tctgattcaa	caaagcagtc	actcatttca	180
tggaatggat	atgggctggt	actcagtga	aagacacatg	anatggttca	gtgctaactc	240
acccttctga	cagaaaatgc	cagaaagttt	ccacccccatt	gacaggcttg	gagtcttgan	300
taccatctgg	gtgggtggag	ctggcactgg	cacgaaacct	ctccactgct	atcctgacag	360
anatggggca	tgttcttccc	agggccactt	gccaaaccan	ggagggtttc	catcttgctg	420
gtttggtgaa	ggaagctgct	ttcaaatttc	aagtggacct	gctggcctgn	ataaggctna	480
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<210> 7753

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7753

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aacttctctt	tagaaaaagt	gccgttcttt	gacatccttt	acacaaaaac	agtctgagcc	120
tgtggcatgt	taatgcagtt	gagaggcaaa	gcatacgaac	ttttacaaat	tctaccttcc	180
ataaaaagcc	tcccgaaaag	gagattacac	gccactataa	aaatatcaac	ctcttgtggt	240
agctgcatta	ganaaccaag	gcttgaagac	tattttcata	tagcatagaa	aaaccactat	300
ganagcatat	taactgcatt	ggtggcttgg	gagtgttctg	tgccacagga	ttatgcatag	360
ctactgttag	gttccaagac	tggttatacag	ttttaaattg	attgttactg	agagcatnac	420
agaagtacta	ccagcccatg	caaaaataact	aaaaataactg	aatcctgttg	ctgaataactt	480
cctcccgga	anaaaaccaa	agggcgccgt	tacttaantc	caacccaacn	ggggacccaaa	540
nttccccccc	caaaatt					557

<210> 7754

<211> 560

<212> DNA

<213> Homo sapiens

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<400> 7754

actggtggat	gtctgttttc	tttattggta	gtttggttta	gaatttgtgat	gattacaatg	60
gactcgtgac	tacacaagca	gtaaaaagca	gccagctgtg	cttttacacc	atggtttcac	120
acaaagcagc	taaagaaata	tcagaatgcc	taattttcta	ttttataaaa	gccctaaagg	180
catatggcag	aagaatgctg	gaaaaatcac	tgtgggaaga	atatgcataa	ataaanaagt	240
atttcttacg	tcaaaaaagt	cccaagaaat	cacaaaatct	gcanaagctt	ggttaatcaa	300
atactgcagt	actgatttaa	tcagtataaa	atcnaaagag	ctttagatct	gtaataaaaa	360
tccaaatttg	gggaagggca	aacttttaaa	cagcagccaa	ttanaaaagg	gttggggaaa	420
ggaaaagtaa	ttgaacagcc	cattgggaact	gtggggacat	gtactgacca	ctgtcaaacc	480
atgttanttt	cttggttccc	ctggaaaach	tttatacccc	tattttcctc	cctcctctt	540
aantccacca	tgtccaattn					560

<210> 7755

<211> 258

<212> DNA

<213> Homo sapiens

<400> 7755

acttaacatt	atagtcattt	tattgctcta	ganagtttag	tttctaaaac	cattggatta	60
cttacatagt	gacaataaga	ctagccacat	acacaaaatc	aactgtatga	ggctgcttct	120
ccagcttagt	ggacaaatat	tacaaaaata	caaaaatagc	tgattatagt	taagctatcn	180
ngtataatat	ttcatgtatt	tatcctaaga	atatcccctn	tttatagata	aggagatgaa	240
cangngtaaa	actaatgt					258

<210> 7756

<211> 295

<212> DNA

<213> Homo sapiens

<400> 7756

gnngnggtat	ncacttcagt	aacttgaatc	cacagatatn	agcagtatat	aaccagaaaag	60
ttacaagtaa	acacaaatta	tacatgcaaa	tttctgttca	caaagggtcac	atgtgcaggt	120
acatgaatta	gaagcgtgca	tctaggatta	tggncaaact	gttttaaaaa	tgcagaaatg	180
ttaaattaca	tcttgaaaat	atgaaganat	ggtctacaca	cttcaaaaat	caaagtgtgc	240
ttatnccana	natgtttgac	aatcacggga	ttcnagtgac	aagcagtaag	atctc	295

<210> 7757

<211> 217

<212> DNA

<213> Homo sapiens

<400> 7757

gatnttttta	ttttnttcaa	cactgttaaa	aacatttatt	ctgatacatt	ctatcataag	60
ttagnacaag	atccactctg	ctacagatgc	gtctgtgaan	agcctngtgc	catccaacta	120
gtgactgaat	gatgtcccat	ctcttatccg	agnacagagca	cacatcttcc	atgctgtccg	180
ctgattgnct	ccaaatccan	aanaccaaact	natcctt			217

009229469.072800



<210> 7758  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 7758  
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ttcaaaattg tacaaagaac attaagcata ttgataaaga cagttttaca gacaaaacaa 120  
ctggaaaata gttttaacat acacaatata taattatgaa aaaaatgtag aacacatatt 180  
gttctaccag ataaatccca aggttattaa aagtctgcta tgcagacctt aagttgaaaa 240  
atgtgttcaa tggagttaca tggttttaga aaattaagta taatgtnaaa attaagcttt 300  
tttttctcat tgcaattggg agaggaactg agacaacttt ttaccccnaa tctatacagt 360  
ttgaaaaata atttatatgt ctagcataaa gaaaattgag aatgtttatg gttctgtgaa 420  
cttgnccttt atgaaatgcn acccctccgt ttnaaaaatn agaaacctgt gcntccgaaa 480  
ccgaatggtc ccc 493

<210> 7759  
<211> 385  
<212> DNA  
<213> Homo sapiens

<400> 7759  
agggatttaa ctatctttat tttctggtta aaatttttaa aaaaagtggg gagagggtga 60  
gagtcntaag gggcaatagc aatagagatt acactgtgct gacacagana ctaaattcta 120  
gtcagantga anaccatata aaagggcggc tgatggttta aaggaaataa ctacatggaa 180  
tctaattccga agacatccat gaagtttaca tctccattat taagccctna agtaatgtta 240  
agaaaaacaa ttctccaaca aaactgggag tccacagttg tcaagtatgc tttctcaggc 300  
acggggtnng taaaantctg gagaaatggg ttctctccat gcccaatgac aaancaagac 360  
ggtcctaagt ttgagggttaa naaca 385

<210> 7760  
<211> 440  
<212> DNA  
<213> Homo sapiens

<400> 7760  
acagtcatgt gtacaatttg ttacaaaacc atagaagact acaacttggt tttaatcatt 60  
tttggctctgc aaatatgtaa aatctgtgtg caattatcat gtatttacag ggtcttgtgt 120  
tagtcatttt caatgattat tccaacaatg tcacactctc aacataagac atggcttaag 180  
ataaatatat tagcaataaa atattctgag aacatatttc cataaatgaa atgtgctgct 240  
atacatatac agaataata taagttgtct tctagctttt aaaacatttt ttaaaaaatgg 300  
taatgttggg aaaagaccct tagaccattt tattacaaaa tctttacagc aaggtcttta 360  
caaatctctt tttaagtgtc atgggaaaaa ttaaaaaatt ttaaaaaata tgnccctgtt 420  
agancnccc catanaaana 440

<210> 7761  
<211> 481  
<212> DNA

09629459.072300

<213> Homo sapiens

<400> 7761

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gcaaactcaa tctttattgc agctgaaata ctattttcgt taagtctcgg acacttagac 60
ccactgatcc tgttactctg cttgtctctg gtgtgcaggg aatcattttg ctggattaga 120
ggaaagggtc cgccgtctgt ttccatgact tctttaaaaa ctgccttgaa atgaaattag 180
ttcatctgct tgcttccgtg tggcagcctc ctggcccgca gctgtgccag gcaccagtcc 240
taagangcat ctatagacta gtgcttatgt gggaccccaa gcctcggcac agctccatac 300
cacctatcct gagctgcctc ctgggggacc gtgctcttca gcttctacca gcaaggaagg 360
canatacggg tgcgtgcgtg gggcaaaaaa acacagcctt ctganttcan ggtctcccag 420
atcttactg ggctctgaac ttctgggnct gtggncccct gtttnggcg cttctgctaa 480
g
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<210> 7762

<211> 423

<212> DNA

<213> Homo sapiens

<400> 7762

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ggtgatgaaa aaatgttttag tttatttaaa attcctgttt agagtcaact ttattttactg 60
gctcctgtaa ccagtgaaac attctgaaat gtattagata atggttgtat gttttatata 120
tttcatatcg aatatagtaa gtgatttaat caattaacaa aagtccntta tttgtgaaca 180
atgagagaga ctgacactag ctttgtatgg ttttactttg gaaaatttta caaatttaaa 240
gtaataaatg tattcatttt ctcaactctgc agaagttcan ttttaaaaag aacattactg 300
ttctaaaatt tcacaacata caacatantc tgtgcttgtg acatttccca atttgtctgt 360
gacagctnga tgttttgaaa aaaaaagaag gagaatggct gtnattggan aaaaaaacn 420
aaa
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<210> 7763

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7763

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attgtatgat tgtgtttatg tgaaatgccc tgaagaggca aatccacaga cacacaggaa 60
gattancggt tgcccganga tgacngtggg ggaaggggaa ctgctatttg acatggggat 120
tctttttaag atgatggaaa tgctttgtaa gtanatagga gtgatagttg cacancactg 180
tgaanatact agaatccatt gaattgcaca cttgaatggg gtgaatgttg gctgggcaca 240
gtggctcaca tctgtaatcc taacactttg ggaggctgan gtggcangat cgcttgaacc 300
caggagtttg agaccagcct aagcaacata gccagaccct gtctctacaa aaaataaaaa 360
aaaacattan ctgggcgtgg tggcatgcac ctgtggtccc agctactcan gangctgaag 420
cgcgangacc cttgagtcca ngaagtogat gctacagtga actgtgatca tgccacctgc 480
attccactgg gggtgacant
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<210> 7764

<211> 494

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 7764

aaccaaagt	tatttaatat	cttaaaaaagt	aacacaatcc	aaaatggata	tttcacacaa	60
cactacataa	acaacatgaa	acacagtatc	accataggga	gggactttca	aatatagact	120
tacaaaaatc	cctgtccttt	tttttctttt	aagttattat	actaagcatg	acaagtaatc	180
atcattttaca	gtatggtaca	ctgacacgat	aaaaacccatg	ttacaaatgt	gctgtttataa	240
atcagtaaca	ttagggaaga	catttcatga	actgtaatta	tttcatatga	aatactatac	300
aatataaaca	gaacatccat	cttgggatga	nctttacagc	aaccagagac	caagtaattt	360
aaaatttttt	ttcagtgcaa	acacatttta	ttccaagggc	agtcctgggt	gcaaaacccc	420
ttctaacatt	cagtaaatcc	cncctgnccg	tcttaatccc	ttancccaat	gcaatntccc	480
cttcccgtcc	cncc					494

<210> 7765

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7765

atntcattaa	gatttaatat	tttttttttg	actaagtant	ggaaaaactt	ttatacttaa	60
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ctgacatana	aaataaactt	tgcccaatca	caacttgtgc	ctcccatccc	tggagtactg	180
actggcaccg	gtaggacaga	atctctttga	atccattact	ccatgcccc	ttgaggcaact	240
gttgaagaaa	tctcactttt	cagccanggt	actggttctg	gtacatatgg	atcataantc	300
catttgggga	agactcgttt	atacaggttc	atcagtactg	tgtcttgaga	tttttagcttc	360
ccatcaaagc	tgcatttcat	gtggncatgg	gtacctaaag	gttccttgat	atgtcctctc	420
cgggccact	ccgtctcagt	tccctggggn	taaaacacaa	cacaccncct	ctgttgaaaa	480
aaattttacn	ttt					493

<210> 7766

<211> 309

<212> DNA

<213> Homo sapiens

<400> 7766

agtctgaaaa	acataatctc	tataatcatt	taatttttct	ttttggaaaa	tgtatgtata	60
catacacaca	gtttccataa	aaaaacatag	atagtaaagc	tgattaaaa	cttcctgtcc	120
tattggtacc	agcacatgaa	gcccttctac	aaaattcctg	acggactggg	aataaaaaatt	180
cctagtgaca	gnccactcct	tctcaggcag	gtgtgattgt	ttgaaatccc	tccnatatt	240
gaaatgaaac	ctgnntcccn	gtaacttccc	tgtaatccg	tgggtccctt	gttnccacag	300
aaaangcag						309

<210> 7767

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7767

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aattgttccg	ggtattgttt	tctttatcca	taanaaatct	catctaacac	tgccatttgg	120
aaagggaaag	aatatgtcac	aataggggaa	ggtacttcat	caacatgatt	gcacacattc	180
cattttctgt	acataaccaa	agtataatat	ttagtgctaa	taaacctatt	ccagatcttg	240
ctaatagtan	gaaatggaat	tttaaaaaag	gcttttaata	caaaggaaaa	acttttcctt	300
ttttaggtgt	tgctgttagt	ttatacggcc	aaatcctctc	atctgacata	atcaggccta	360
aggcaattaa	tggtaaaagc	tgattaaagc	aaaaaatcct	tttgaaaaca	atacatnaaa	420
aaatacttaa	acttaaacaa	gaccttacia	cattttgaac	tcccanctat	ggtggcaaaa	480
cntgccggtc	tanccgtna					499

<210> 7768

<211> 472

<212> DNA

<213> Homo sapiens

<400> 7768

gtttttttgc	ctgtgttaag	tcctgttgat	gttaagtcct	gttgagagca	ccaggtaaac	60
actctgcacc	ccttctctta	gtagtaatag	gttttttact	ccttggcctc	agctgtcctc	120
acaggacagt	gggggcagat	cagagaacac	atcagaaaata	catacaaaga	aatcgtacia	180
actggacagg	ttcccctccc	cctgccacaa	ctggcatccc	aacagaggga	acaagtacta	240
aatcattttt	gacgacgtaa	ataagactga	aaacagggtta	aacagttgct	gaacttaagg	300
gcatgacaaa	aaggactcct	ctctctgacc	caggtaggca	aaatgctttg	ggtgtgaggt	360
aaaaaaaaatg	ggtaaganca	gctgtacana	ntgggggtgaa	atgttaaaca	gggtgcaatg	420
cccaagggtc	aaaaaccaag	tccagcgcaa	gcctnaaaca	caggangcct	cc	472

<210> 7769

<211> 301

<212> DNA

<213> Homo sapiens

<400> 7769

gggggtccgc	attttcttaa	ctcgttccca	ccgctcactg	gagaagcctc	tctttccagg	60
cgtctcttca	gttttctctc	aagantgtta	attccatctc	gcttccctcg	gcaacagtca	120
ttcttctcac	tgctgggtct	cactgggtgaa	cttcgggtcaa	tctgctgaac	aaggcttggc	180
tttgcaagta	aagtctggta	aagttccnga	atttcaagna	aggatacctg	gaacaactgg	240
gcttccatca	ataattcatt	cacttctgga	ctaacacatg	gaggggatac	nacttctctc	300
a						301

<210> 7770

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7770

gagaagaccg	tgcttataat	ttaagaaact	gaaactacat	ttttgcattt	tagtaaaaatc	60
tgagattgta	cagtttttaa	tctcatttcc	acagacaccc	agcaggcagc	ctcttttctc	120
ttagaaaaat	caaacatgca	agccgtgaag	tcaggaatag	ctgaaccctt	tgatnagca	180
cacncttttg	gcttctttta	agcgagcctc	tcatcaagag	catttccttt	gctggcatga	240
aggganggct	gtgcctgcc	nggctagcac	ctgggangga	cgctnacn		288

<210> 7771  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 7771  
ggagttcatt caaaatttat tgagctgcaa ctgtgtgctc agcaatgaga atatagcagt 60  
gagcaagatg tgaacaagat ctctgccctc gtgagcttac aatctagcag cgcagccagc 120  
ctattacagc cataatttta caattgtaat aaaaactctg gaaaatgcat ggtgctaact 180  
gatttatcan aaagtcttga cccaccaaga aatcagaaaa gacctccctg aggaaggaac 240  
atttaggatc agctaggtgg aaagtgaan gaagantgtt gcaggcagan angacagtgt 300  
gtgagggctc gaggcaanac atgt 324

<210> 7772  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 7772  
aataattctc tatttattaa aaagggtcct acagctttac agccacagca cgggacacgg 60  
ccctggacag cgacngcgaa cgggccaggg gccgctttgc aacttcaatg ccaagctcac 120  
gtctggctgc gaccgtggca ggctgtggca tccccgacag cggccggtgg cggaagtatg 180  
ggggcgggtg gcaccgctca ctcgagattc acagaacatg gcaagcccg ctagctggca 240  
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ccgagagcan gaatgtatgg tcaactgagga caaaangcaa tggcctggcc cgtggcccaa 360  
accccgcttc agttctgcct tctgtcacc tggcgggctaa gcacaagtcg gggccctgga 420  
tccccacaag ttacaaggga agggcnggcc aaaaagtccc cttggttaac ncctccgcct 480  
tttcntcac angttccact gccccctgct tgggcccctgg ggcctccacn cactttgc 538

<210> 7773  
<211> 490  
<212> DNA  
<213> Homo sapiens

<400> 7773  
ctggagtcatt aatttcagaa agagtaaaga taaactttct tattaataaac tggtttttagg 60  
tccaaataat gaagatgtag aaaaacaacc tacagtccca ttataacatt ttgaaattca 120  
tttataaaaa atttacagca gctgtaaagt ttcagtatcg taaggacaac gtgacacctac 180  
aaacagccaa aggatgtaga caagatgttt ttctgtcttc caaataacac aaactgaaaa 240  
gaaaagcctt tgcttttctt tggccacata aaactagtat ttccacacta ctggttaata 300  
acccaagaa acctttgctt ctcttagtca atttgctcat tatggctaca agactacagc 360  
tcaacatcac aagcccagaa aaaatgctgg taganatcca tctgagcat ttcccgaaaa 420  
cccatcacia catttccagt gcttncctat ttggtccana nctatcntac cagtccttgg 480  
ggcaaatgc 490

<210> 7774  
<211> 425

003220-69462960

<212> DNA

<213> Homo sapiens

<400> 7774

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atcttgagga	aaagtaaaag	tacattaaga	atgtaaagcc	aagtccagtt	tctatgcaat	180
aagtgaactg	tagtctaata	aagcagattt	agggtgattt	tagatatata	tctttgttct	240
ttaatatata	tttatatata	gacagatcta	ccaattgtaa	actagtttat	ttaaaggaag	300
gggataaatg	ggatgaaaga	aatctttata	ctatacttnc	atattcncaa	agaacattta	360
cgtttaaaat	acttttccat	ccatagtatc	ttnggccact	aattcctnca	aaaattcntt	420
ttacc						425

<210> 7775

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7775

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aaagataaag	caaataagta	cagctaaata	ttgtagtagt	gtatagggtg	tacactgaag	120
cctgtgtata	agcattaact	atgtaccaat	aaatgcaaag	aaaataaaact	ttgggttatag	180
cttatctaaa	ttaatctcag	aatttgacaa	ttaaacatat	gaatttgtaa	ttaacattct	240
gcattttttt	aaaattcntc	catattttgt	acagtggcna	aataatctaa	aatcagaacg	300
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ccaaatcaat	tctagtttat	gccctaaaaa	taaaatgtta	ccagatagac	aacnncocat	420
aagtataagt	taccccttcc	aaatttnagt	aantttattt	tcccangtgg	gaaaacca	478

<210> 7776

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7776

gtacacaaat	gttcataaca	gctttattta	taacagcccc	aaactggaaa	caaccacaggt	60
gtccatcgag	aggtcaatga	acaaatctat	tcaatgaagc	agtactcagc	aatgaaaaaac	120
ataaaaacaa	aaactcgtga	cacatgctac	cacatggatg	aatctcaaaa	taactatact	180
gagtaaaata	tgctgacca	aaaaagggat	acatatgtga	tgattcaatt	tacatagaat	240
tctaggacat	gcaaactaat	aacagggcac	aagggcactt	gggaatgatg	ggtccgttcc	300
tcacttcagt	tgtggtgata	gttttacgca	gggtatacat	acgccaacac	attgtacact	360
tttgatacgt	gcagtttatt	gggtgtcaag	tacacctcct	aaaataaaaa	tattgatggg	420
ctctacattc	tgganacacg	ggcagtanaa	ctattatttc	cacttgaaat	ttttacctac	480
cctttggtaa	aaattctttt	ggaacttttc	tccncanccn	cggcaaggaa	aacaaaangt	540
tttaac						546

<210> 7777

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7777

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gcaaaaaacaa	aaaacaaaaca	aacaaaaaacc	caaccaaaca	atagtactcc	ttccactcta	120
tgctaacgga	agactttctca	caccagccag	ttaaacaatg	aaattcttaa	acacgcagcc	180
tgctggggct	gcatgcagag	ctaaaatgca	ggtgtgctga	cttcttggag	ctggagcaga	240
ggaaaacatc	aaaaagcata	totggaatct	atcacagctt	tctttcttaa	gcaaataaaa	300
atgcaaatta	gtttcataac	cacaattcaa	tttatcaaac	tttttctgaa	gaatttncat	360
ttaattatgt	tatacataac	aggaaataaa	acttttncac	aaacactctc	aaggnttacg	420
attatcaaga	aaatgacaaa	gttaaagcag	gaggaatntt	tgacncatgg	gggggaagnc	480
aattccggtt	ctg					493

<210> 7778

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7778

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ttgttagtat	acagttatta	taaacagtta	attgtttaca	ttcattatit	gtattcaaag	120
aatcctagcc	gatctgaagg	ctttcccata	ctgcttacat	tcatanagtt	tctgccaaagt	180
gtgagtgcct	ccatgcattt	gaagtcttga	ggctgatctg	acggctttcc	cacattgcct	240
acattgatac	ggtttctccc	cagtgtgagt	cctttcatga	tattgaaaag	aactggaaga	300
agtgaaaagct	tttgccacat	tacttacatt	cataggggtt	ccttctgggt	tgtctttaca	360
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attctctctc	gtatgagtc	tttcatgtta	tatgcaagga	anaaaaataa	ttgaatgctt	480
gtttggcatt	ccttaacatt	ccataggttn	ctctcccgtg	tttntttttg	gcctgttttc	540
ccaaccaatc	ttngggnaaa	atnt				564

<210> 7779

<211> 447

<212> DNA

<213> Homo sapiens

<400> 7779

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cagacaaaaca	aagatctgat	cattacattg	cccagcttta	agaatgccaa	aaataactaa	180
aataactgtca	atcaaatgag	agggctacat	gggtttatta	aagtttattt	taacaatttt	240
agctaagcag	aatgtgctaa	tgtaattcaa	gttacagtta	ctgccagata	acataagaga	300
aaacattgtg	tgtggccact	taagattatg	cctcaaacag	atactgtttc	gtgocgagaa	360
cananttggg	gaacacagct	gggttnagtt	tcaatggtaa	gcncataaaa	gatcnagaaa	420
atccccccact	tttctaataa	ccgctat				447

<210> 7780

<211> 548

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 7780

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cacaaagtcc	tatcttgcat	ctttaaaaat	aaattaatat	tcaaaatatt	tccaccccaa	180
atcccaaadc	agttttatat	aggaaaat	gatttatata	tgtaacctgt	aatatatgaa	240
acatctgtac	attttatctg	ccttaactgc	atagttccaa	ttctaaggag	agtgaacaaa	300
atgctgcttg	atgtatgaat	agtttcatac	atcagtgtat	ttgaggactg	ttgtgcaata	360
tacagaaaac	cagtcagcac	catcgttttg	tctttttctg	aaaacacaac	atttacggta	420
cactgaaaaa	ctgtcttaac	ccaacacaac	ttaaataatt	cttanggtaa	aacatctgtt	480
acactttaag	tgccctggtg	attctcattt	ataaagtccg	gcncngtaaa	atatcctaata	540
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<210> 7781

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7781

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catgcagtga	tcctgcgaga	cactgtgtcc	actcacagcc	atgttaactg	ggggccactc	180
cctgctgccc	taccatcata	tgaatataca	tttgtcagta	aaaatgtgac	aaaaatgtga	240
tgtttttcca	ggtttgtgtg	ttttcataaa	gttactcagg	tttttagana	atgaacatag	300
gaacatgtag	gatccacaat	ttttaatgtc	ctcagggttag	tttgtattta	caaaactcta	360
agaaaataaa	tgtgtgttat	gttttggaaact	gctgctttga	atgcaatata	tccaaaataat	420
gaagctgaac	ataaccaana	cgggaaaant	tatccaaact	ttcccaaaag	cctattttggg	480
aataccaccc	cttggcttna	aaaaaaaaana	tggaattttt	taaccatttc	canaattaaa	540
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<210> 7782

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7782

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gcaggtcacg	ggggcatgct	gtgctgocaa	gtcctccaaa	ggaagtcaca	aaggtttgca	180
tttgggacat	ttaaattccac	aaaatcagga	gaaacaataa	atgcacaagg	gctggtgcat	240
atactttggt	tacagtgcag	ccaccacaca	cggtcacgac	tgtgcaaaaa	tgctttcaaa	300
tcattaaata	aaaaagaact	cacacaagct	ataaaaatgt	tgccacaaaa	agctaaactt	360
tcctctaata	aatattaact	gactttgact	atnaactaac	tccanatttg	ctaaagtaca	420
agtnttggtt	ccataaatta	attatTTTTT	ttccataaat	tacatcctat	naatccttga	480
aaaaccaact	cacanggctc	ttgaaaaaat	gggactgtcc	tcntcctgg	ganattttaa	540
ggaaattant	tttgc					555



<210> 7783  
<211> 506  
<212> DNA  
<213> Homo sapiens

<400> 7783  
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agtcatttaa tcttcattgt ttattctcca ggggtaattc ttgagttatc tcacatgatg 180  
taagtacat ctttgagta tttcatggat tccatttggt ttgtcatagc cagaacatca 240  
tgaaatccag tacttaggcc anacatatgt tgaaagtatg cctccttttc cacttgaatt 300  
gttaaattgt ttactccagc atctttaagt attcctgtaa cctgctgtac tattctttgt 360  
tctagcacat caaatgtcac ctgtatatga attgtccng ccacaatact ancanaatga 420  
ccccaaaatg aagggtctcg tatganatta accctccaat tttccgtttc tttccaaagc 480  
aaatgttatc cttttccana tccngg 506

<210> 7784  
<211> 279  
<212> DNA  
<213> Homo sapiens

<400> 7784  
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ggtcaatact gcaatgaaaa tgttaaaaaa aatattatac acgntcatg tcttccacac 120  
accttcctgg gaaataaatt agtgagcacg gagaaactgg gctgggtggc ggccacagct 180  
ganagaggag ggagtgttaa ggcagtatct acaangggaa nggtggcagg agggcaagct 240  
aaggcctana ttcttccttc caacctccca nacagggaa 279

<210> 7785  
<211> 244  
<212> DNA  
<213> Homo sapiens

<400> 7785  
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anctcgtttt tggaatacat gtgtcaaagg ctgccatgt taataccttt ggggnataaaa 180  
cggtaacgat nccctgtgac aaacctntcc atcacctgac gcacattcnc atctcctggt 240  
nact 244

<210> 7786  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 7786  
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gtattctgga catgtttaac ttgaatattc aggtagggga ttttattgga aataaggatc 120

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tagagctagt	ggaagaagtt	atatttagga	ntcatccaca	aagaggcttg	agaaacaaat	180
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atttggaaga	taactgaagg	aaatcatana	ggaaaaatag	tacaatctaa	tttctctccc	300
taactgaaag	caaaaccact	tttaatacta	agaatttatt	atgatctctc	catgatacta	360
ccattttttc	aatcccaaca	atcatcatca	catcccagag	ccatctcatg	acaananctt	420
ctaaatatta	attgcctgaa	cactgaagaa	aattatttct	gatctaaggt	gttacttatt	480
ctctttatta	aaaaaaaggg	ggccagnccc	ggtntcctg	cctgttttcc	cacccttttn	540
ggaagccaag	ttngtt					556

<210> 7787

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7787

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ttatgganaa	tcggttaata	aacacatttt	aaattcaata	tattatgtat	ttatgagcgg	180
gaagcaacct	taaacatttt	aaactccaga	aatatacaaa	acaattataa	gtgaaataat	240
acaaagtccc	ttgtgttttg	atcctggagt	caaaccatag	aaatctcagg	ttattaagag	300
aactttgaaa	aatattgttt	agaatattaa	aatcatgtg	tttgggggan	gggagggaat	360
taacagcctt	tctttgcctt	aaaatacttt	acgttttatg	aaattgcaat	tggaatgaag	420
cagctcctaa	agtagtcagt	gttcagagga	agagaaaatt	gagcacaaga	nccaactacc	480
attttactca	gtccanncaa	tgcttaactg	aanaactcac	ttaaaaaact	gttnaaggtc	540

<210> 7788

<211> 450

<212> DNA

<213> Homo sapiens

<400> 7788

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gcatcacacc	agctacagaa	gtacagataa	ccaagaatgt	ncttcagAAC	aaggatctga	120
gagcaactta	tggtgttgcc	tgctctgaac	ctccacaaaa	accagttct	gacacacgca	180
agacagacga	tataacaatt	tcncttgagg	atggtttttt	ttaaaaaatg	acaagaacta	240
atagttcaaa	ccctttagan	tgtgagatgt	ggcagctcgc	ttggtgccgt	ggcactgctg	300
gtaaaaagcc	aacatgggca	tttgaaggtc	aggcacaaaag	aaccaatggg	gtgggtgga	360
aaaagtttta	tttncactgt	ncaaanatac	agatggtccg	agtggatact	tccgtccagg	420
ctcatntggg	gctgcangaa	tcccctaaat				450

<210> 7789

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7789

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gttaaaaaaa	tttaactgct	taaaagtaaa	gttttgccat	tgnttgagaa	aacttttttt	120

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tccttctctg	cgctgccagn	tgtaacactt	cttctggatt	gctggcattc	aactctgtct	180
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aagtcaagta	ttccaaaatg	gtaacatccc	atatgtagtc	gtagtaggag	tccatagcat	300
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actgacataa	aatagccacc	tgtgtgtggc	aattcagcaa	agaacaacat	gttatcattc	420
gtattattac	ctggtctgta	taaacatcaa	ggggcacagc	cttgttaaag	aagtcagaac	480
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<210> 7790  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 7790						
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attactgttg	tgattatgtt	tataaaacag	ggacatcttg	catacccta	atgggtgtgaa	120
taaaatcaac	tggtgcagta	cctttgagca	cttcataact	taaaattcta	aaaaattgag	180
atttggacct	acagtttgct	atttaacana	ccaagtctgg	tcttganant	aaaaccccat	240
caaaaactgg	attaaaaaac	ctcatccagg	cagctngctg	tgacaaaact	taaatcctgt	300
cgtacgttgc	ctgggattcc	ctcaaggtct	tttncatttc	tccgaggaaa	taatgacttg	360
cttcagtccc	gctctgtgtg	cgcgcagcac	tttgtcttta	attccccac	tggaanaana	420
anaacnctca	gtgttatttc	tccagtcattg	ggtacatctg	aacgttccac	ccnccccctaa	480
aaattg						486

<210> 7791  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 7791						
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gaagaccaag	tttaagtaag	aatcttatga	catgtaagga	ataacataaa	tgaagctatt	180
ctttaaatag	ttgcattcat	gtctaaagta	catttggttt	tctaaaaaga	aaatgtacat	240
tcttgcccct	ggtgaatatt	ttattggcat	ttacaacaaa	tggctaatac	ttttataact	300
gattctcata	gcttataaac	attacatcaa	agttacacaa	agtaataaca	ataaacatat	360
agcaccattt	cctcttcaaa	gttctaactt	ataaaataaa	gccccaaaca	tggctggggc	420
atggggggct	catgcctgta	atcccagcat	tttgcaaggg	ccaaggtggg	gnggacncc	480
tgaagncnag	aatttnga					498

<210> 7792  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 7792						
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ataataaaaa	gggcacaatg	aagcacacat	ccccaggggc	cacggnagcc	taggaccttc	180
ctatcagtgg	ggaggcaagg	tctttgacgg	cttttgagtt	cagctgaggg	atcatgctga	240
tcttcangag	tttgctgctt	gcatacttat	tcttgatggc	gatgaattta	gttaagtttt	300
catttacttt	caccacattc	ttggccatgt	gctgcatgac	ttccaatact	tcattctctg	360
tgtatcctgt	gtaatactgc	tgctttaagt	tccattttcc	ttgtcctana	acttctgana	420
caagcaggaa	gcagctgctg	ctacctttna	aggatgataa	tgcnccatat	catnt	475

<210> 7793

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7793

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tctccgcctc	ctgggtttta	gogattcccc	tgccctcagcc	tccagagtag	ctgggactac	120
aggtgtgccc	caccatgccc	agctaatttt	ttgtatttta	gtanagacgg	ggtttcacca	180
tgttggccag	gagggtctca	atctcctgcc	ctcatgatct	gcccgccttg	gcctcccaaa	240
gccccctttt	taattttttt	ttgtagagac	nangtctcgc	tatgttgccc	aggctagtct	300
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tgaacctcca	taccagcccc	aaatatgcat	tcttggaatt	atctgcaatt	gcccanaaat	420
gtacaagcaa	ctcctgagaa	taaaccanaa	aagataagaa	actccatgaa	naaaatgggc	480
aatgcnccagg	aaaggaaacc	aaaaagntaa				510

<210> 7794

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7794

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tgccatttta	aatattactt	caaatacatt	ttaaagctca	acaaacttgt	gttgaactga	180
attgcagatc	ctgaactcta	tttgaataa	catcatgaaa	cagaaaatac	ccattccaaa	240
tgaanaatgat	agtgccttgt	tgggggtggg	aatgangcgg	ggagactaaa	tcactattaa	300
cagacttctt	ttcccaatgc	aatttgtcaa	aagttccaaa	gttctgaaat	gtactaaatc	360
ttaagcaaat	taaattcatg	atattactaa	aactttttta	atagtgaat	gacttatcaa	420
gttatagtgg	ctgcttaaga	acaaattntt	gtgttgaaat	acctgcntaa	accacaaaat	480
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<210> 7795

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7795

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gttctctctt	ttgatagctg	anaaagctga	ggctgagggc	gatgaaattc	acatggccag	180

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tgggagccag	gatggactca	gggtgccc	at	gagaccatgc	cgtcattcag	gctacactgt	240
tctgaactca	cgtagaccaag	atgtgacaga	ggctggattc	cacgtccctg	gcacactcca		300
aganggattc	aaggttaaaa	tacaacttga	tacttttaa	ggagaaactc	cccacagtat		360
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ttggttttatt	tcaatacatc	acccctgtgg	aaaaaacttg	tctcaccaaa	tntacntttt		480
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<210> 7796

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7796

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acaaattata	cagtttaact	ttcttcacat	attgccacaa	tagttaattc	acagtataat	180
cttatttgta	tttggaagaa	aanaaataaa	tatacaataa	ttgaaatagg	ttcaagaatc	240
aagctcgatt	tgtttccaag	acttggaaga	acttcttttg	tactgttcca	gttccagatc	300
cttctgaatt	ctcatctcat	cgacttcatt	ttcagcatac	tgaggatctc	tgcgagggtc	360
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ccacaactcc	ataggtgagt	gggcatgaac	tttccaatgt	catttttcagg	aacaggaaga	480
natcctatct	gaccgaaaga	atccatcccc	ctgtgataaa	cancngtttt	tccgatcccc	540
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<210> 7797

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7797

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attccatcac	tgaggaaact	gctaaagatg	gtccgtgtgt	gaaataattc	cttanagaaa	120
cacggagctg	gaaaaataat	cactgattag	accttaaaaa	tagttcactg	cataacatga	180
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gatcaatttg	ttncaatcac	tatttggtag	agcaaaacttt	accccnaaa	gganaaatta	420
aattnaaaaa	aaaaaacctt	taaaaaattg	aaaacttaat	ttttttttgt	cctaggaata	480
ccttaccctt	ccggtttaat	ttatccattt	ccanccctg	ttttaaaatn	cccccttgcc	540
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<210> 7798

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7798

agatgctgca	taatagttta	ttaacaaagc	tcaaagttaa	cagaaataac	attaaatgca	60
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aantttggga at 252

<210> 7802  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 7802  
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aatgaacttt aaagctaaaa aagccataga atatcctnct atgttaaccc caaatgttgg 480  
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aacctttccc gttttt 556

<210> 7803  
<211> 237  
<212> DNA  
<213> Homo sapiens

<400> 7803  
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caattgcat acttcctata ggagacgcac aaaaagcagt tggctggttt catattgcat 180  
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<210> 7804  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 7804  
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ccaagatgtc tctgtacaaa gatgtacaat atgtacaatc actgtaagtgc caagctgtgc 180  
aaagcagant ctagaacact aattcatgcc aaggcttaca aaaacatttc aacacataag 240  
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gccacactca acagttgtct catcactgag tggctgccac tgctgccttt ggntgaacca 480  
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acttgntg 548

<210> 7805  
<211> 335  
<212> DNA  
<213> Homo sapiens

<400> 7805  
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gccatagggg aaagggggaat acanttaatc agctatctgt ataggatgga ctacttatgc 120  
naaaataaaa atctccaaaa caaangacag tggtaggctt cactaccctc ccccgatgat 180  
cccagcatgc gataatgccca ngcantgggc cctggggcatg cgatgggtggg aactaatgtn 240  
tggaanaaaa agccacaaac cacagaaatt ttaaagaacc ccccccttcc ccataaacac 300  
acacattcca cacacacnnc ctccnattct ttata 335

<210> 7806  
<211> 108  
<212> DNA  
<213> Homo sapiens

<400> 7806  
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<210> 7807  
<211> 312  
<212> DNA  
<213> Homo sapiens

<400> 7807  
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aatcacttac tcgaggtcac ccagcgctgg caactgctgg agctgggatt tgaaccanc 180  
tagcagtgtc catgctacaa aaatggggcc agccttggca caggangttg attgctgcag 240  
ccagtgtttc tanaattcca aatatgaagt ggtctcatgt tctccttggg angaagccct 300  
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<210> 7808  
<211> 478  
<212> DNA  
<213> Homo sapiens

<400> 7808  
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actgcagtga aaatacaatt agagtttctc tgaataaaat taaatgtgca tggcctggga 240  
aaaactgaan cccanctcac tggcttaaaa gggggtcatg atataaaatt aatgtccaag 300  
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008270 69162960



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<210> 7809

<211> 269

<212> DNA

<213> Homo sapiens

<400> 7809

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tgagag	ctgt	gcctgt	tgag	gcaggg	gacg	tgtact	gttg	actcc	aggaa	tgacac	aatg	180
ttagcc	ggca	gacacct	caa	agttc	ctctg	atcccn	acaa	actggg	gaaat	ggggtg	gggtg	240
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<210> 7810

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7810

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aaatc	act	t	g	caact	cttac	attct	ggcat	tggtt	accac	ataag	taaag	ttcat	catt	180
tgatg	gt	caa	aggag	cctc	g	attct	attcc	tcttt	caaag	ctga	accaa	tggact	cctg	240
tgggaa	atag	tattgt	ctct	c	g	ttcgg	tca	tgctta	aatgt	aaaca	actcc	atagca	caaaa	300
aagat	g	caat	gggc	ac	ctaa	acaaat	ccta	gtggg	tacag	aacac	acaca	cacac	acnca	360
caacn	acaca	caacn	acgca	cacac	acaac	aagtt	tgtt	gtggc	atgaa	aaan	atgcca			420
cncat	gaaaa	aaaa	atgcta	cactt	gggtc	aaaa	atgaat	ttta	accaac	tgctt	ggtaa			480
tctaca	attc	cattc	tttga	aaatt	tanca	ncttt	ttttg	aaatt	tgtt	caaa	agcaag			540
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<210> 7811

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7811

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ctgatta	aaaa	aaattt	ttt	taacaa	aaaaa	acagaa	aatct	gatttg	atgg	tacct	tgaaa	180	
atacc	ctaaa	tacc	aaatt	tctcca	acct	aacatt	acag	ctaatt	taag	aattc	ctcct	240	
tcattg	gtaa	aacatt	ttt	cctcatt	aaa	tgtggg	tact	gaaatt	ggat	agaaa	acacta	300	
tgaat	gtgaa	aatacc	acca	at	tttctg	ca	gtaaaa	aaaaa	aaaac	ccaaa	aaacaaaa	360	
acnaa	aaaaa	aacct	agaat	gttctt	t	tgga	atcact	gaaa	tatc	acaa	ac	420	
tcttac	agtc	tgtgc	acctn	ctncc	agg	tt	ctctgt	ttng	cttgt	attac	tgaac	gggtg	480
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<210> 7812

09629469.072800

<211> 495  
<212> DNA  
<213> Homo sapiens

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tcacaaacca gtaaaaacat acaaattgat aaatgtataa acacattgca catagggtga 180  
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gcttcctggg ccctcatatc tcccaaccctc caaanataat gaagcattct ctcatctgct 300  
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agaccataaa cttctaacac tgtactaggc atttttccta ctacttgata tgtacgatct 420  
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gaacantgg aatnn 495

<210> 7813  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 7813  
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ccagactaac gcanactttt ctcttccctt ggcccttccct ctccctcgcca ttgggccaat 180  
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gttccagggt caatagtctg tgatttatcc aggctctgag gtatgcaccg cttctgtttt 300  
gctcgttcct ccaanagcta gtttggccan aaaggggatg ctttatacca tanaacacat 360  
ccaccttcta gaactgctct aaaaggncag gccctcanat tccacatggt tggantttctg 420  
gccaattctg ganccttctt cacactcggc tctcaaaact ctngggttca aaaaaaaatt 480  
aacatggtga naaaaaaana ttttctaaac 510

<210> 7814  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 7814  
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taacgcaaaa ataaatcaca aaaatatata aattaaaaata ttatgcaaaa taaatacggc 180  
ggctgtcacc tgcctaccca tttggatgcc ctttgcaaag gtctccctta cgttgaaaaac 240  
acagtgggtg ggccagttcc agggatggc tcatcccagg aaccagaggt tgaaatagga 300  
agggaaaaat tgcactggga agaggaagtc atcanacaaa caatatttgg aaataatgat 360  
gaccctctgt gagaagggat gatcaatggg ccacgggaaa aagangaagg ccaccantt 420  
ggtggttaacc gtgtgccaaa agtcaactgt gaagntttt cacctgcccc ttgtcttcnc 480  
ataccccccc caatgttctt ttgctctacc tggccatcca gggctgtcag gaatattact 540  
cctgcccnc tcccaaaaag gaanttggga aaacaantg cncn 585

009270.6946296

<210> 7815  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 7815  
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ttggaatcta ttcttctttt attcaaggac caactcaaag gtcagctttt agttaactct 180  
tatatcccca tacacatata cttaaaggcan anttaactgc tatatccaag ctacttcttg 240  
gcatacctt gtcacctaaa ataacagaan agggagactc tctgaaaaga aaaatgatgt 300  
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attatccttg gctacaagga tcataacaag gatgttgcca nttggacatt ggacagggaa 480  
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<210> 7816  
<211> 308  
<212> DNA  
<213> Homo sapiens

<400> 7816  
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tctaaaaaaa agtaccagg tacaattttt cctgtttttg atttgctttg ttttttcaag 120  
tttcagcaaa tgcttggtcc cctcagccca gccccaggaa ttaggactga ggctgggtca 180  
gantctggan tggggaatgg ggtagtttgg aaccacatga ctgagtttga ggggtgcccc 240  
tcaccccaanc tgaggtaggt gggtcagaat ctggccnggt gagangangc nccccactgc 300  
ttggccct 308

<210> 7817  
<211> 211  
<212> DNA  
<213> Homo sapiens

<400> 7817  
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aaacaacctt ccaaggnaan aacaaatgca tcctatctta gcacagcttt tctccaattc 180  
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<210> 7818  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 7818  
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09629469.072800

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gcctccggga	aagggtgcaa	gtttacagga	cttatcgtgg	tgccctcacc	agaccctcc	180
tcctcctcct	cctccnccct	ctcctcctcc	tccgtggccg	ctggcggctc	ctgcatctcc	240
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<210> 7819

<211> 352

<212> DNA

<213> Homo sapiens

<400> 7819

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aagagccctg	aaagaggcgt	tttgagccaa	nagaaccgct	tgtaggcgat	catttttaagc	180
gtaaccaagc	tcgcctttca	cccagttctc	caaggcgttg	aaagagacca	gctccagtct	240
tggggcgctg	acctacttgc	ctananggcc	aaggatctcc	tactcgggtg	aacggccccc	300
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<210> 7820

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7820

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caccccacca	aaagagacca	aaaaaaaaaa	agaaaaaaaa	gccaacaac	aacaacaaaa	180
acaactctac	ctgaccacat	tcacagaaaa	tgacaccagg	atacactaca	aaacagaagg	240
aggtgtcatc	tgctctgtgt	ccaaagggtt	cttctccatg	tcttgtaact	ggcgagtaac	300
catcattgaa	catgctgtgt	gccaaatcaa	aacataactt	cagcatatgt	cagatcttac	360
tagagatgg	gaacgtanta	naaattggaa	attttccagc	agtatttttc	tttaaataag	420
cactgtcaaa	gctgcagctc	ttcttttaaa	tcacaggtta	tttcattaca	cctaagtcag	480
tccttggttt	atttgggctg	gtgctctttc	cagccactga	atanaattcc	cctcnacaaa	540
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<210> 7821

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7821

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aacaaagcca	ctatttgc	atttgggaaa	ggaaacatat	tgctaattgga	agccacagga	180
ctggtcaaaa	ataaatgttt	tgtattaagt	antaaaataa	atggagaatt	ctaccccaaa	240
gcctccacct	cagtgaanac	ctgcgggtta	ttgcagctgc	aagggaagct	acagcacagt	300
cgtctcanaa	taaacagcag	cctggaaagc	anatgttttc	ncaggtatch	aaggccctcc	360
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<210> 7822

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7822

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ttacaggcat	gtgccaccac	atccagctaa	ctttgtatct	tgagtaaana	tgggggtttct	180
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ccatcctctg	ctcagaggaa	agagctgaca	cctctctgcc	cagtctcgag	gccccagtcc	360
acactgtcta	caactatcta	cagccatctt	cataccta	gccccaaagaa	gctccccaca	420
ttaattaacc	ctggagtgtat	cncctctaaat	tgggcgttcc	ccttnaaaac	aagaaacccn	480
ncccccccc	aaattatttc	agggccatcc	tcccctccca	ccaattccca	caatgnagga	540
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<210> 7823

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7823

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aaaaaaccac	aaccaatta	taaagtcaat	atacaaaatg	tattctattt	ttaaaatggc	180
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ctctctgaac	acggccacat	tcaggtttgt	taaatatatc	ctcttccgct	tctggagtta	360
gttgatgtt	atctccgact	ggggacaggg	gtttcttaca	aggaagaagc	ttttcagaat	420
cttttttaaa	tccaaagttt	ttccaganct	cattganttt	gatctgttac	ccngnttgt	480
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<210> 7824

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7824

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ataagaggat	atgaatacaa	gtatataaaa	acagtgcaaa	atgtgcagcc	cacagcctcc	180

ggagttggct	tcanaaatcc	cccttaatgt	tgctagacca	gttacattaa	atattaaatg	240
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aaaatgaaaa	actcaaaatc	cctaacaact	caaaccatcc	aatcaccag	accattagga	360
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ttggctttta	aatgtttaat	tcnanaaatt	tcccttcag	gggccnccca	aaaggggggg	540
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<210> 7825

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7825

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caggaaaaag	cacattccct	ggggaccana	aaaatctctt	aaaaacctcc	ccncccaggt	540
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<210> 7826

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7826

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agtggcatga	tcacagctca	ctgcggcctc	caactcctgg	gctcaagtga	ttctcctgcc	120
ccagcctccc	gagtagctgg	gactacaggc	ttgcgccacc	atgcccggtc	tatagggcac	180
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<210> 7827

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7827

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tcatagggga	caaagccata	cttggcagtc	ctcacgttac	tggttacatt	agatttggtc	180
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tgtttaaatg	tggaacttat	gaaataaccc	gantggtctg	cctccncnct	gantnaggaa	540
aaggggacctn	aatttnatgg	ttttc				565

<210> 7828

<211> 600

<212> DNA

<213> Homo sapiens

<400> 7828

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caagctggag	gtcacatgta	gctgagtgtg	aaaccaagaa	aaatacgaag	cttcaaaaagt	120
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tcaggantca	agatgctttt	aacctttctg	taaaaaaaaa	gctccccaaa	tgctnggggg	540
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<210> 7829

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7829

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acaaanacat	cagaaggcca	gttagtctct	accacanaag	cccccaagt	aaccgaattc	180
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<210> 7830

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7830

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gcagtggcat	catcttggcc	tactgcaatc	tccatctcct	gggttcaagc	nattctcctg	180
tctcagcctc	ccgantaacc	gggactacag	gcatgcacca	ccacgcctgg	ctaattttta	240
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<210> 7831

<211> 356

<212> DNA

<213> Homo sapiens

<400> 7831

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tcatttgaca	aaattcaaca	gccattcatc	gtaataactc	tcagaaaagc	aggaacagag	180
aggaatatch	tcaatttgat	aatggacatg	tnttaaaaca	ctacagctaa	catattttaat	240
gatgttagac	tgaatgcttt	ctcctaaggc	tgggaacaag	acaaggatgt	ctgctctcac	300
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<210> 7832

<211> 511

<212> DNA

<213> Homo sapiens

<400> 7832

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atccttgaac	tttcaagtat	agaaatgagt	ttagggtaaa	atagtaacct	ttgaaataat	180
tacagtactg	tattagattt	gtctttttct	ttanttgctt	aacttcatga	actcatttgt	240
ttttttcttt	tnaattttta	ttaatctact	ttttccaatc	ccaatgtga	ttaaattcag	300
aagaacagta	tctttcaagt	aatgatgca	aaacttcctt	tcacatcatc	tcacgtcctt	360
tccccctttg	tattagtaga	taattatact	atctacagcc	agaacgatct	tcctanacgt	420
gatcatgcta	tgtgctatga	aaaaaacctn	caatggggga	actccnctac	cgaaatgatg	480
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<210> 7833

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7833

09629469.072300



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gccactgtgc	tgtagaaat	caattcatga	aaaggaaacg	ccctatttcc	aagcatacct	180
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aaatgtttaa	ttaatTTaat	atgtttaaact	taatacgttt	atttaatttt	tacttaatac	300
cattactgga	acatattaag	cattttttcg	gcttaaaaaa	aacaaaaaaa	caaaaaaaa	360
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ttanaaaaaa	acccggaaag	gtgccactgt	tgaaancnnt	gttttttagga	attottaccc	540
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<210> 7834

<211> 416

<212> DNA

<213> Homo sapiens

<400> 7834

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tacaggtgag	ggaactgagg	cttagatgtt	gacagaccca	tccaaggtga	cccagctggg	180
aatggtagac	ttcatcctgc	tacacagtat	ttaaggggcc	taaaccataa	acaattttta	240
aaaatttggg	aaagtcacac	ataaaggaga	tgtttcaata	ccttctctct	ccaggtatga	300
acagtattga	gcaagaccca	cagggcagca	ataatcattt	atcctgatga	aaggttcctc	360
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<210> 7835

<211> 366

<212> DNA

<213> Homo sapiens

<400> 7835

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tccctgatgc	tcccactgcc	ccaaggaggt	aagancctga	ggcctccgac	atcnactttt	180
gaccanggg	anccanccca	catcccaaaa	aaaggcacc	ttgagttaac	tcacataccc	240
tctccccacg	tgcactgccc	attaccggcc	accgacaatc	tccancgctt	gangcaccat	300
tcatccgaca	agtgtttcct	gaaagttang	agcccnntcc	tgtgctanac	cctgggtang	360
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<210> 7836

<211> 305

<212> DNA

<213> Homo sapiens

<400> 7836

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tccaagcag	tgagcgcaca	cccaatgggt	nagcccatna	accacttttn	tnacactncg	180

ttgggcaaaa	ctcctgtccc	cagcactgaa	catngcctaa	gccccatanc	agctggcaag	240
ggatccaatt	gccctgcctg	ncctctanctc	ccancattgc	tactgtgccc	gccannggta	300
ctgaa						305

<210> 7837

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7837

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gcaaaaatca	ctttacgtac	tcatgattgg	ctttaatatt	tctttacact	atacatactg	180
aaaatgttta	catttactaa	taaggaatgc	caagcgtatc	catcaccatt	tgaatagctt	240
gcaggggatt	tgtgatttct	tccatgttat	ctcttctcaa	aacccaatct	ggcttaagtc	300
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tanaaactgt	aaatacggcc	acaactttgg	gactacttcn	tacatcaaaa	ggncnatttg	480
ttgtctccct	taaaaaacco	ccaacacnaa	ttttggttna	aatccncccc	cctttttggc	540
actttttanc	agct					554

<210> 7838

<211> 448

<212> DNA

<213> Homo sapiens

<400> 7838

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aagcttttcc	aactatgtac	tatgcctcct	ttcttatatg	tatggtaatg	tggctgtgga	180
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ttatttgtnc	tcatgtttat	tttacaatac	taaagcccaa	actatggtaa	attgtctctac	300
atctctacca	ggtcacctga	tatacaggaa	ataaaaactca	actatcttcc	ctcttgaggt	360
aagcccaagc	canancactg	tttttagcana	gtctaaaana	aaaaggtctc	aantgtcgcc	420
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<210> 7839

<211> 398

<212> DNA

<213> Homo sapiens

<400> 7839

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agctgatcca	ttcctgggga	tcagcttcac	cctcctgaaa	ctgacctcag	ctgcagaaac	180
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agaactgcag	gtctgcgagt	gtctccattt	ggggtgactg	gtgaggacnt	gtgttgantg	360

gccacttctg gtccctgccgg aacacttgca tagnnnnn 398

<210> 7840

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7840

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tgacactgct	ggtcacctgc	aaggcctctg	ggataggctg	gggggtgcaa	aggaaactgg	120
ggccttgggg	tccccagggg	catggggang	gaaataaata	ataaacacca	tgggggataa	180
ggaaccagga	agaatggggg	tntnaatggg	gaagtgtcc	atgcttattt	gtggcactaa	240
aggtcttgca	anatgcccc	tgactggggg	ccgtgtccat	gaattctcna	atgacctcac	300
tttgacaaa	ggctcangca	tctgggggat	ggctgggtcc	tancgtgaag	ggggacagca	360
ntgccccaa	cccaacctgg	aaaaaccanc	actctgccct	tccttttcct	ttcttcctgt	420
cttgcaacc	acttgtcctg	ggccccact	gttttnccaa	tacaacacca	ttcctgaact	480
gaacctcttt	ttncctnttt	ctgctcncac	cccncccat	tcttgttcca	ttngg	535

<210> 7841

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7841

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aactattctg	gtcaacaaaa	gtaaagacaa	gtggataatt	atttttagtg	gagottttaa	120
aacctgtgag	aagctcacat	tgactttttg	gcctccagtc	cacaaaataa	tacttcattt	180
gataagctaa	agtaaaganc	aattttatgg	attaactcta	tcaaagtga	gcacatgaaa	240
aatgggccta	aagtcacaat	atattaatca	ggatataaaa	aattaaattt	tcacanaggt	300
tttcagggat	gtttgtttgt	taacaatgac	ctatatgtaa	taatgttatt	tgttaataaa	360
ttcacacaac	acaaagcagt	aattaactaa	tgaattttca	tttttctttc	cccaatatta	420
aaaagggata	attatactat	cattataatt	tgataatgtc	tatatctgct	aattagggca	480
cataatatcc	tacaaactac	tactataaaa	tgtgggaaat	ccnanaacta	taattaatac	540
tgtaattaaa	atcccccc					559

<210> 7842

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7842

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tctgtccaca	aaaatggctt	atcagcaact	gtgttctctg	tatgtgactc	taactccaca	180
gccacaactg	gttgagcag	gagtgaatat	ctgattcaag	ttgaatcana	cctattatct	240
ctctcaagca	ttgacctgan	acaggattgg	gagctgggag	tgagtcattc	tcaacagtgc	300
tattctggag	ggtgtgtcca	catactgcag	ctgccacatg	cccttgtaaa	actggattgt	360
tcaacttcta	natttcatga	ntccactat	ccttccaaaa	atgctcactt	tttottaaac	420

attcttgaac ngatttctgt tntttttaac aatanaaatg ttattaacag aacaacaaat 480  
tttgtttgaa aaaaaaatct ccctttctcc tcnncggttt ccattccgaa aaaaaa 537

<210> 7843

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7843

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atcagccaca caatttacat aaatatgcaa aatgatccta ggttacactg gaataaaaaa 180  
tattttgaaa tcttattgcc acatgtaact accaggttat tttttaagg agatgtgtag 240  
gttgaagcc tataagaaag gtacacgcag aatgcataca cagatacaga aaaacaagta 300  
caattacaat agagacataa tacatacaat caacaagagc tctgcctgaa gcttctagca 360  
acttatacat tttgggtaca cagtacattc agatatcact acttcacagg ttgaaaaaag 420  
ctgtcttgan aaacactaat gcaaaagcct atgaagattt aatgaagaat ttaagttatg 480  
acncccttgt tnattaactg gcagggtgata aggnngcttg aaaaaacctg cnnccctgaa 540  
tgaaatccc caaataattt cccagga 567

<210> 7844

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7844

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actaccant ggggtggggg caantactaa gcaatattta ctatgatact agaaaaaaaa 180  
aaacaaatct acattattaa acaaatatnt tttaanaaaa cattaaaaan atacattcna 240  
aatcaaggca aacatttgct ttcttcgtgc aatggcattc acanaactga tcccctgagt 300  
caagtntaaa attaatatag ctacagctcta cantccatta agcaagtcta caaatgctgc 360  
ccttacaaaa aaatggtata cggagtgaag ggatncacaa caccataat acnaaataat 420  
ttaactggct cccncttctc atttaattca catctttgaa naatatttaa anaaaaaatt 480  
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<210> 7845

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7845

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gtccttttta gctctaagat ccatgacact gcatttttat ggccaaaggg caatcaatta 180  
tgcacctggt tgtctcaata ggcagtaaaa cctaataata ataatgaca aatcatctgc 240  
cataaaaaaa tacgaaaaac ttttgaaatg ttaatttcaa ctccaatgaa acaaatacct 300  
aattaaaaca attatttatt ccctgctaga atataaaggg aacaacaagc ttgagctgca 360

aggctcaagc	tttgagagca	cagaaagatt	tttaaactaa	taatgcattt	taagtccaag	420
aaaatggagc	cagcccataa	tctcatgttg	gaatnccctc	aggcaaactg	gaaaacncat	480
cctgaatatc	tctgcaatgc	gaatctccgg	ttatttggnt	ttttaaaaaa	aaaccctactc	540
ctccgtgggt	aatttangaa	ttcctttaag	ggaaaatttt	aaaaa		585

<210> 7846  
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 <212> DNA  
 <213> Homo sapiens

<400> 7846	
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gaagctttct	ttctttcctt tgcttttttg cttttggaca gganaaagca gtttgtctga 180
attgtacttg	actctttnaa nangaaaagg gcgtggaaac anaagggggc ttagggagaa 240
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aattnccggg	ctganggttg gggggtggaa ggaaggcctc ctgcctgccc gcccccaacc 360
aactnctcc	agaagcttca gccccatctt ggttcttgca cananatctc aggccaanaa 420
aaaaaaaaacg	ggggtggaaa aggaactctg ggccctctaa caacaaaata cntggatttc 480
naaaggttgt	ccttgggtctg ggggttggga aaaagaagaa gaaaagcncnt ntggttttaa 540
ctggaagaac	naaggcaact tccctccgga ng 572

<210> 7847  
 <211> 576  
 <212> DNA  
 <213> Homo sapiens

<400> 7847	
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tgtactgaac	aagtttaatt actacaagtt gattttttat tgagtgcataa gttaaaaata 180
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cattcctcta	tctncaacat gtctancaca cacaggtgcn cagtacatgc ncttaaggaa 480
caataattnn	antttgaatc cctaacctcc tttggctggt tttgcaaaaa aaactntttt 540
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<210> 7848  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 7848	
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aagcactata	aaaaaataaa gtcaatccca tctctatgag tngcataaga gctgcttcca 180

anaacccagg	gatgcccaca	tcccataacc	cacccanaca	cggccaattc	ctcatanaca	240
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aaaatgtngg	atggattttt	tttattcctg	ccactaccaa	aaactataaa	tctacacaca	360
cactcacacg	cacatacatg	tccattttta	agaaagcttt	tcctccctgt	gactacagga	420
accagaatc	cacccccccc	ngggtgaaaa	aaaangccta	nttacnggcc	cnattttncn	480
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<210> 7849

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7849

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tggtttctga	aaggangctg	gtggtcacca	gggccctaaa	naggcacctg	gagtcctcaa	180
gattgtggag	tccacggaca	tagcacactg	tgccactagc	cacacagaca	gctgggctta	240
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agccgtatta	caggtgacag	gttcacgcgg	aggatccgct	gagcccgctg	ccgcacctca	360
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ggccctacca	tgcccttanga	aatcggggcc	caaccctgtt	ctctccttgg	aagaaaaatnt	480
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tnttttggcc	ttacaaattc	ctttggccgn	cc			572

<210> 7850

<211> 502

<212> DNA

<213> Homo sapiens

<400> 7850

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taaanatgat	tctgtgtgtt	ggttttgttg	tgttttgttt	tgtggctctt	cctcagtcac	180
ctgaactcag	gaaanaaatg	cttatcttga	tgaaatatca	acagcccacc	cacagtaaaa	240
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ccccctccc	atittgcttt	ttaaactttt	ttttttttaa	gttttgattt	tttttttaat	360
cctgaaaagt	aaacagtaaa	acagctcctg	gggaaaattt	acaaccaact	gcatnaaggt	420
ctgggaaact	naagggtctg	aacanggttn	ggaaaaatta	acaggaaggg	atccccccnc	480
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<210> 7851

<211> 316

<212> DNA

<213> Homo sapiens

<400> 7851

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tgaggcccca	ntgcccantc	tgaaccttaa	aaccggccct	cagganggct	canccccata	180
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ttgcangaac	cncgtcaagg	ctgtngatna	aactttctgg	tcacaaancc	ccttctcctg	300
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<210> 7852

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7852

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cttctttttt	caattttctc	cgccctcaatt	tggcaagtat	gacaaatgta	cagatggttg	180
acagctggtc	ctccaccata	cctgctatat	aggttatccc	aaatgttctg	aggcagcatc	240
aaaaccaggt	cttcaatata	accagctttt	cttggaggaa	cacctccatg	aatacaaaaga	300
aagtcattat	ttgaaatagg	gccaggttcg	gcaaaggctc	taaatttatt	aagccactgt	360
cgagaaatat	aaaactgaag	gangcttgg	tccattatgt	tcaataaatt	tgatatcctt	420
ctcctctctt	tttgtgcctc	ttcgctgctc	ttcctataan	aaaaaaaaact	tagcttctgg	480
cntttgttca	ataaaatccg	aaacttcnat	taaactctga	tctccaantc	ctaccaaaaa	540
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<210> 7853

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7853

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ccattgatca	aagttcacaa	ggcaaatctt	cataaacttc	taaagctgcc	tacagtttcc	120
cgtaaacaaa	tctctaaatt	tacaaaagca	atgcttgctg	attgtaaaaa	acacacagtg	180
ccaaagcata	caaaggaana	anaccgcgtt	gcaatttgct	acctacatcc	cactcttggg	240
gccaacaact	attggaagtg	tggtgagtga	ttgacttaca	tccttctaga	tcttatctac	300
atatttgcaa	agaaaaata	tacatatata	aaataaaata	tgtgtgggtt	atataccttac	360
aaactgagat	cataggcagt	tccgcaactt	gccttttctc	tgtaacaata	aatgatggat	420
gctttgcang	gttngtgcta	canatnctat	ttatccttta	aaaagntgca	taagaaccnt	480
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<210> 7854

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7854

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tgccacaacg	gcagcatctc	caactgcaca	aanaccctt	gctgccaggg	ccgggcaccg	180
gcctanctcc	tcgcctgcct	gcctgaggca	gccgtggaat	cagggcaggg	gtggcacagg	240

tnnaaaagac	agatggaaac	aatgcccacg	aatataccca	aagtgtccca	ggaggataaa	300
agccgtcatg	aggaccanaa	gccaacccag	tctttttttg	gcctcctgga	naattttgtt	360
ttgagacctg	anactccacc	tgaaatggct	ccctgaagan	ccccacggan	caagaagggt	420
nttctgaaga	cacccttgaa	gaaaacacan	tgcttgcaaa	agganagccc	ccaccaccct	480
cccgcaaggg	tctggacact	aaccccatcc	tgaaaaggtc	aaaaaaaaat	gaatctccaa	540
aa						542

<210> 7855  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 7855	
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tctccccac	ataccaactt
tgaggggctc	tgaaaaatta
aattcacaat	gaatgacaac
gcaggtaggg	gactcctttc
gaggttgctg	aaacagtggc
ttctccgctg	gagtcttcta
ggtctccana	acttaaccca
ccctcctgcc	tgtaanccg
	ttgttcc
	60
	120
	180
	240
	300
	360
	420
	480
	507

<210> 7856  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 7856	
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gacanatgca	ggacaaaatc
caataaatgc	agaagtgatg
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ttataacagc	acagaattcc
nanccgttat	caaaaaataa
gggagcccag	taacctttca
gcaagtttgc	ttcccnggtc
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	60
	120
	180
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	300
	360
	420
	480
	540
	549

<210> 7857  
 <211> 577  
 <212> DNA  
 <213> Homo sapiens

<400> 7857	
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ttctatgatg	atagaaacat
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	120

0969469.072800



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atacaaaatt	aagcagccat	atgtggctag	tggtaccat	gctagacatc	gcagtattag	240
aacataaaaa	aattctataa	gtaactagaa	tactggtagt	cctanacgtt	tcttgcatc	300
tgaaagccat	anaactgaag	ttgttatgta	tggttatttc	tactttttta	aaaaagcaaa	360
ttcttgctgg	tctatataat	agaatgactt	attttcttac	gtggttaagaa	cagaaatcct	420
acaaggaact	ggganctang	ctggcagggg	aaaattgaag	gtgatttntt	taatangaat	480
gttatgccaa	ttcttctgtt	ttccaaaaaa	aaaaattatt	gcttatgaac	attactggaa	540
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<210> 7858

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7858

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acagggtcct	tccacctccc	tggaaagggtg	canaatganc	cangcctaac	tacagggccca	180
tgagcctcta	taancttagg	ggggaataan	aaacactgtg	aacttanata	tataaataga	240
gagagacccn	agcaataggc	cgggcctgac	tcccanaccc	ctgcagatca	tggctaaggc	300
cttacatcct	cctctgtcat	actggantan	gangcagggg	aantcatctt	tggagtattt	360
tggtttttct	tatttatgta	caaaaaagtc	cacatccaca	atccaaaata	aagttctctg	420
tccatctctg	aaactgcctg	tctcantttt	tcccctgtct	gtttggncca	agggaatgga	480
attnacttaa	aaaaccatgg	attttaaaaa	aaaataaacc	ctggtttttg	ttattaaaaa	540
aaaaacattt	gggttcaaaa	aattc				565

<210> 7859

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7859

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actttttaag	tgacctttgg	tcacaaatgt	caaaatgttt	ccacaccctt	tccaccctca	180
aacaaganac	aaactgtttt	tgataaaactc	tagtatttat	taaattataa	attttgtnat	240
cnaaaagaaa	aatgcagacc	aaaaaaacct	caaaactataa	gactagacag	caaagcctat	300
gggaacacca	tgaagtgtgt	tacaaacatt	ctgaaacata	agttactggc	tgttttcatt	360
tccatttcaa	taacttttact	ataaaatagt	tgttattcat	ctattttgaa	atcccaaatt	420
cncatctatt	catacattaa	attatgtttc	ctgttcataa	tatcaaacat	ctcacagggtg	480
ccaaatttaa	taatggtctt	atgccatccc	tgccgaaaaa	ataaganacc	atgccggatc	540
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<210> 7860

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7860

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attagcattt	gtgaattaag	catgtcaaca	ttactgtgtt	gcttggttagg	cacactgctt	180
atttgtagag	ctttatcagt	cagttccatc	atttcaatat	tttggtccac	cacaccactt	240
tgaacatgt	aatgaaggga	aagttttata	ataaaaaaaa	caacttgga	ttactcaacg	300
ggaagtcagt	acatgttttt	tgcaaggaga	acaacataac	tgtttaatga	tgctgtcttc	360
aataactac	ctaattctgt	ttatgcaact	tctcaccagg	taattgtttt	ttatgggtcag	420
ttttgctttt	ctttgtcccc	tagtcaaggg	aganttggtt	gtgttggttat	ctggaaattn	480
cctcatgtcg	aataaaacca	ctanatgnac	tcatnatnta	ggtgttttct	ctagtaccat	540
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<210> 7861

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7861

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taaaggaaac	agaagtaaag	agttttataga	aggatacaca	gaaatacggg	acttatctct	180
gagtgggtgac	attagaatgg	gtttttcatt	ctatcctttt	tactttatct	atacattgct	240
tatataacag	atatcattca	agagcaatga	agataactgt	ataatgctat	ggcgtcaact	300
taccttagca	tacaaccaac	ttgataataa	ataatgggtca	aatggccaaa	cctaccaatc	360
cacagaagat	cattcaaata	tctaaaatga	ttatggatca	gacatacaga	ataccnaaca	420
taggatacaa	acaacaacaa	caacnacnac	aatttcccat	gattaaagcc	canggcttta	480
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<210> 7862

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7862

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 7863

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7863

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gacagttctc	agtgttacct	tttcagggtc	atctttccct	aaagtacagc	aaacccaaaa	120
aaaattaaat	taacttggat	caattttccn	aatagggaat	ctaagtgact	atagaaaaat	180
ttacagaaat	acntctggaa	taacacacnc	agacatatat	ttntaataa	ctgttaacat	240
aaaaaacagc	taaaatttct	ncncncagaa	aacagatgcc	aanatgacaa	ataantccag	300
gtaggcattg	taaaatctgg	ttaaatacac	taanaaaaaat	actaaactgg	tgagttttac	360
ccnacaggga	atcttaaaat	accanaaaag	tacctccaat	tttaccttnt	ttggaaatga	420
aacaaattcn	ttattttta	atttaaanat	tgtggtagta	tantccaaac	ncttaatntt	480
ataatatncc	tttagaaatt	aaatttaagt	cncccaccc			520

<210> 7864

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7864

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cagtaatcac	aactaaatac	aaaatttcag	gtgaacttgc	ctttcaaaat	aatcanacc	120
cttgcaacag	gaaattgccc	caagantttt	tttccttgtn	caaaaacagt	taacaccact	180
ttgcnaaagg	natncaaaaa	tacaatatna	aaaaaaaaga	ctcccccagc	ataatagcca	240
acagcagctt	ataaaaacaca	agctattcag	ttganacatc	agtaacctac	acccaaaactg	300
tcctccatan	acaattccan	aantcagctg	gcttttggtt	accatgctcc	aaaagggttna	360
anaggctatt	tccaaacatc	ccctggggtc	ctctgaaggc	aagaagcacc	tcngaaagaa	420
accattatgg	acaataaatt	tggaaatnca	gctggttttc	ccnaaccata	tntattotta	480
ncacccttac	caccccaact	tccaaaccca	aaccncaggg	ccctgctntt	cttggnnaaa	540
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<210> 7865

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7865

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ggggcaggta	anaacttgaa	naaattaaat	atacacatta	agttttcttca	ctaattctag	120
ccactaaaga	agtacaaaat	ttgtacaagt	aatactttat	aatgaaattt	tgatgcctgt	180
caaaaaggta	ataagctata	catatactac	aataaacatt	tttaaaaact	gtgcttaata	240
tcatagaatt	ttcttaaaat	gggttggtaa	aatacctata	tagcatccat	tcttacacac	300
atattttcca	ctaaagattg	cttaaatagt	acaaattcct	attgctaana	aattcatggt	360
caacagctgt	atatgaagtt	cctctaagaa	acatcacagc	atttgcagta	agtcatttc	420
tccagtgaag	cccaccttat	tttcagttta	ncttactaac	aagttctcat	gaaaacgttt	480
anatgtcttt	ngctggnac	ctcctccagt	ttccgaatcc	tttttaaaaca	atttnaattt	540
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<210> 7866

09629469.072800

<211> 481  
<212> DNA  
<213> Homo sapiens

<400> 7866

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ccanaatgaa atttttattgt gtaaagttta tagaagtatg actagtattc ctttgtacaa 60
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cacgctgaac catttacaga cacactaaaa atgtttttaa atatcttctt tctccaaaga 180
gtcctttgcg catttcttag agtaaanatg gggacacatn ccaggcaagg tcacnatggc 240
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tctgtgaact ttctcatctg ttanccagt cgaccgatac ccttcttgga ggtcgcctga 360
aacctggatg actccatttc cacattccat ttgggcctga acaacatac cttgtttgaa 420
ggcattggga cccttgacag ggcnnnaatc ccnggatctn cncgtcttng aacctctccc 480
c 481
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<210> 7867  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 7867

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caaagggtgc atgaacgana agccctctgc tccctgcccg atgagaaagt cccagaaaag 120
gattcagcag cagcaagtct acagcacaaa catggatggc attgtccctg aaaacacaca 180
gttaggtgga cctacaggag acattggagc ctaaaccatgt gggaaagggc tcagttacag 240
tacattctac tgcatacact tgaaatatta cagtgtgttt ttctccaga ctattataaa 300
taatttttcg tgctttctga aaaaaataaa aactgaaact ttcagtctgc gatgaangtg 360
aaccatctt ataaagcaga ncttacttac attctgcagg attttggtgt ggatgcataa 420
aangcttacc tggttagtaa gcctccattc ctccgaacta canaaagnaa nccttctgca 480
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<210> 7868  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 7868

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ttacacatta atagtatgat ttgaaaactt cccagattag actcttaagt aaaacaattt 180
aaagtattta gtgatatttg atcctttaca agcattttat aattatggca gcaatgccaa 240
gcatctgatg cgatttaacc accaacaataa ggtacaatat gtaagaattc atgatatggt 300
atcttgggct tctggcatgc cttactagag agaaactagt ataaaggaag atcatatata 360
acagtagaaa aatatttgtg atttttttct tttttaaaaa ctatttaagt aggcacccac 420
cccattccca cccatgacca aaaatgcaaa ataagtacat cccttaggtg tataccttcc 480
cttttgctta gggngcagtt aanataaact aataccgttt ttgaatttta gantttttaa 540
ccccccccc cntcccnng ggg 563
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<400>	7871						
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gggatgatgg	gcatgcgcag	gggcgggtaa	tcccggaact	ccttcaggta	actgcgggtgc		180
ttgcccttgg	cccaaattgt	catctgggtg	aagccacca	gggganaaca	gggccactgg		240
ganacactgc	ntcatgatgg	cgaaaccgat	ccaggacccc	acctcgtagg	tgtattttggg		300
gcaggacacc	ancaggaaaa	gccacgtgaa	gggttcttgg	gtggggatatg	ggatctttccg		360
cgtcttggac	ccancggggc	gcaggtcccc	cagggccatg	tggatggaaa	atttccgagc		420
tggcatatca	caaaaatggc	naacgccant	ttcacctgct	gaactccgta	ggtagggggga		480

atttaaaaaa ggtgattgat nttataggcc accacccgcn aaccccattha ttagttgcan 540  
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<210> 7872

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7872

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aacattaaaa agaaaaaaga gccntccttc naaaacaaaa caaatgaaac agaaaatagg 180  
tttataagag gtggaanagt cngaaaaatt acatacacac attaacaaca tagaacatgg 240  
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gtttacagat gtttgggtat gttcaatagg agcttccaaa aatgtcaaac taattcagtc 360  
ttgtgcaa ataaaacctaa aatagttttc agcagatttt acagtgatat tcttagggta 420  
tganaanaat gcncaccctc tanaaacnat gaaacngacc aaagtttgac aatgaatggc 480  
ccntaaaaca atgttttttt tccgttacaa aa 512

<210> 7873

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7873

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gcactaactt cctccttctg catcttccac anaaaaccca cttgtgggca ttctctttct 180  
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ttacagggcc acgctcgcca ggctttcctc gccacgctg aaccacgtcc tgggcacagc 480  
aactccaag ctgtcncaat ccgttggnaa tgccancaca cctctccgaa tcatncacan 540  
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<210> 7874

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7874

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caagctccgc ctcccaggtt cagctcattc tcctgcctca gcctcccaag tagctgggac 120  
tacaggcgcc cgccaccatg ctcagcta at ttttttttg tttttttagt aaagatgggg 180  
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ctcccaaagt gctgggatta caggcgtgag ccaccacacc tggccaaaat cctatacatt 300  
aaatgtttgt cttacccaaa ccccaaagtt aaattgtaaa tataaaaccc acagcggggg 360

tgagaaaact	ggagaacagt	ctttctctat	tttcctacaa	tcttcaaata	agaagtatct	420
gcttatataa	gacaggttag	tggcaatacc	tggcttanaa	agtttctaga	tttattttcta	480
gctctctaca	tactgtgata	aagtcctaaa	gtttaaaaat	accccccaata	ttacaggcat	540
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<210> 7875

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7875

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cangcaggga	ngtggggcgc	aatggaagtc	naaagangtg	gaacgtgcgg	aantcctcca	120
gcccctcccc	aaatcccagt	tcccctttcc	aagtccctcc	atgggggtctc	canatgatcc	180
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tcctctctct	ggtagaaaaa	tanatctgga	atgaatttgg	ggattttggtg	gttttttttt	300
gtttttgttt	tttgcattcat	tgggtgcttg	ggtttaagga	aaggtggtct	ttgccgattt	360
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tccgaccctt	ggaagaacac	anctctgggg	antatcccct	aaaangtggg	aagggganag	540
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<210> 7876

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7876

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agaagttcaa	ttttaaaaaag	aacattactg	ttctaaaatt	tcaaaacata	caacatagtc	180
tgtgcttgta	acatttttcag	attcgtctgt	gacagcttga	tgtnntgaag	agaangaggg	240
agaatggctg	tgagtggaga	aaagagcgag	agaatattct	tatagtaaat	gttagtaaaa	300
ttaanagaaa	taatgggtac	tgtcactcac	aatataaaaa	cttcctgctg	tttttagcaca	360
acctgggtgg	gataaatttt	aggtacagaa	aacatcngaa	aaatcaataa	agtgttctaa	420
ttacttttaa	tctacttatt	gtatgctatt	ttttttcnat	tcnnaaatct	caatatcccn	480
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<210> 7877

<211> 613

<212> DNA

<213> Homo sapiens

<400> 7877

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agagaacaaa	atctgaaaga	cccatcctgt	ggcagtcact	gagctaggag	aattttacca	120
attattcaat	ctccatagta	atcatgagag	gtaggaaatct	caagtccatc	ttacagatga	180
ggaactaggc	tccacaattt	aagtaattgc	tcagggtgcc	acatattcga	ncctaggcag	240

tccccatgtt	tctgtctgca	ccaaatgcct	cacctgctgt	ggctccta	aggacgttgg	300
gagacttaca	acaaaggctn	ttgacaaaac	agagctgtgt	ntagctttcc	caanaaacia	360
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aagaaatgga	atcttcttca	ctgctagggc	tcgangttcc	atcccaaagc	agttttgatc	480
caaacgcccn	gctccacaan	tctgtgccct	ctcngaacct	actccctcat	aaccgtggta	540
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aaatgccncc	ccc					613

<210> 7878  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

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tccgacatat	aaacccacgg	aggtcaccag	ccctccccgc	atctactctc	ctaacagctc	180
aggacagccc	cgtcacacta	ctgccagccc	tggtgactca	ctttgttggc	aattttttaa	240
gccctcttca	ttatgtactt	cctactcttc	agaacctctg	tgataagcaa	taccctgcc	300
atacanaacg	ctggatctcg	gtttactcag	cctctccctg	tagcgtcaca	ggctgtgcac	360
tcacctaggt	gagcccctaa	aaacagggtt	tgcttctgct	tcacctaacg	ccacgtcttc	420
cctcaaagt	gtggtcacca	aatgtttgca	aaaanggtcc	tanccttttt	nccttttggca	480
cattaanccc	tttaaaatac	ttctgaacta	ancctttatac	tcaaatttctn	cccctccnca	540
aaaaatttt						549

<210> 7879  
 <211> 605  
 <212> DNA  
 <213> Homo sapiens

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
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<210> 7880  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

09629469.072800



<400> 7880

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tgtagtgttt	gagggcaaga	gactgaccat	ccatgcagaa	agctggcctg	ggctgctcgc	180
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ccccagagca	tcacctggcc	aggtctgagg	gcagagcatg	gagtgggtcc	agactttgtt	300
tctctgctgc	cagccgtaga	aaggctctggg	ctgtcagatc	tcccccaagc	cagacagcct	360
cgctcagctc	cttggtctggg	gccccttagg	gaacaggcct	gcaagtgtga	tgagccaggt	420
gtgctcatcc	aggcagctac	aggcgcagcc	tctgatatct	cactgcggaa	gtctatccgc	480
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<210> 7881

<211> 436

<212> DNA

<213> Homo sapiens

<400> 7881

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aggaatgcac	ttagcctgcg	ggctgtcttg	gagaaagcgt	gattcagctt	ggctctgggac	180
cttggcccg	gaccaatcag	gaaccgaagt	gatgattcat	aggggctatt	cagcttggcc	240
cgggaccaat	caggagttag	agtgattatt	cctaggggct	attcagcttg	gcctgggacc	300
aatcaggagc	tgaagtgatg	atttacagag	gctggggctt	tccttttcca	caaaagaaag	360
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<210> 7882

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7882

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tgctactgac	gaactcataa	actggagctc	aacaaggtaa	ccacaaacag	catccaggca	180
naaanttgtn	aatcttctcc	tttcacaatt	taaaacttgg	ctgggattct	caacatatct	240
tatcaataat	acatgtntac	aatccaaaag	gtgcagtggc	ttcttcattc	tgttccagaa	300
tggatcccgt	gatttgaaca	actgatcata	aacttctagt	agtctaggta	atggtactcc	360
aatttcattc	attgtctgta	ttacgaagcc	cacatcccag	ttcaaagtac	aaacctgctg	420
ttctaaaaac	tgtacaataa	aatctaaang	aaaaaaacct	tggttttgcc	accataaant	480
ttggccaagg	aaaacaatct	tgaaaactaa	aaacctgcnt	cctatccgaa	gaaacncaat	540
gttcncccg	tcncccantc	cttctctatn	aattcctgnc	caatt		585

<210> 7883

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7883

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gaatgactta	atacacgant	gaagatgact	agggtagaat	aattttctgaa	aatgtcnaat	180
tacagcactt	gatacaaaga	ctgatgataa	ctatctgtac	cataaaaatt	tacatgccac	240
gaaaacatta	atttataatt	ttaaatatac	agtaaaacat	agttataaaa	agagtattac	300
atttattata	aaccagttaa	ttactcngag	aaatatttat	taaaacctac	taaaaaccag	360
taaatattgc	aactgaggta	aaaattttata	agtnaacaaa	actatcattt	ataagggacc	420
nagaaagtna	acaaaagggc	agacattttc	tgatgactgt	gtctaccct	gatattttga	480
agcagcttcc	acaaatgtna	ctccataacc	tgttgacc	tcnttacna	gggctncgct	540
anacctaata	atttttccca	atccgttcca	ttgtng			576

<210> 7884

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7884

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taaatatttc	tttatagcaa	tgcaaggatg	gcctaacaca	ctgcctaaat	caaaaattgct	180
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aaattttatg	gctgatcaaa	tgtcattact	atgaaaatac	tccttatgan	ctcacagant	300
caggacatca	acaatattta	aactttcaact	gtaaacatga	cacantggta	ggcactgtgg	360
aaatatattt	ggctctattt	tccttacctg	agcatgtnaa	agancanact	attctaacag	420
tgtgatgact	ctgcagttaa	aaaaaaatcc	actctcccgg	cacactgata	aaacatgttc	480
ctgggcatag	tattcctcna	aggaaaatgg	tcntaaaaat	natctgcnaa	atccnatanc	540
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<210> 7885

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7885

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cttgttttgt	tccccccaca	aatggcagct	anagatggta	agaaggggggt	tggtaggaaa	180
gtgtgactgc	acactcagca	gtgctgagga	tagatcttca	gaatgctttt	tcataaagat	240
gaatagggtt	gagatacana	aactgtcaat	gcaccaagag	cagtaagaga	gcacaacata	300
ttcacttctg	taataatagc	tatatatttt	ttcttataaa	cgtgttttgtt	tctcaaanc	360
gaagcttggga	ncagggtgtga	gttgccctcc	attgatttgt	taggtgaact	ccgccaccc	420
ctgctccaac	ttccataatt	tgatccaatg	ccancaggta	atgaatttnc	catttgccac	480
aattggtttt	cttaacctga	atttcaaaaa	aanaatgcan	ctntcaaatt	tcnttaacca	540
ccaatccngg	gatacaaacc	taaacnccnc	cc			572

<210> 7886

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7886

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tatctaagac	acacttatat	aaaaagaaaa	cagaccctcc	taacatgtaa	cattaccgtt	180
cgtggcaatt	gttctcaacc	tttcaactct	cttttgacct	tagcattaag	ctcctttgct	240
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aacaaaacca	ncctggaacc	atanccactg	cctggaaggc	tcctgttttt	ggctccccgt	420
gggaaacttc	catccggggg	gggtgcaggc	tcccaaactc	aggcttcac	ntgtgctttt	480
tgcaaaagg	cttgccctaag	gccagccatt	ttccattanc	aggactgcc	aaaaaatcct	540
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<210> 7887

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7887

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ggtctgagct	gccacagaag	gcatctgcan	agtcaccatg	ttaacanant	ctttatcctg		180
tatganatca	cgtgtatgtg	ataagctatg	actctctgag	caaggatttt	ccaatttgac		240
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gtggganaaa	gctttccac	aatcagagca	tccatacggt	ctctcccctg	tatganttct		360
ccgatgtctg	ttgagacatg	atttatctct	gaaagctttc	ccacagtcac	tgcatgtata		420
gggtttctct	cctgtgtgaa	ttctotggtg	gttaatgaga	cctgacttgt	gtgagcagga		480
tttccacac	tcagtacata	caaagggtgt	ctttcctgtg	tgaaatctct	gatggganat		540
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<210> 7888

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7888

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gaagccgagc	aaancatggc	aggcaagtga	ggggtcccan	ctgcagaggg	cagaancctg	180
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taacacacaa	ggatttatgg	gtgtggcana	atccaagcca	ctggtcccat	anacanatct	300
ctctcatgct	tggtcagatt	ccactttgga	gaaaaatggc	tcgtttgaca	ggatggcctg	360
gtgaggggac	acaggtacta	acggtaacag	gccgatgaac	actcaccact	ggcatcaggg	420
tggaactcac	ctgactggac	ctaactccat	tacaaggacc	tgctcctgnt	gccagnctnt	480
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atntttttg						549

<210> 7889  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 7889  
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ggaaaatctt ctgatgcttt gatggtacat attcttatta atgccctcac attagaataa 180  
ctattttcag aacataaaat tgtaggttca aagttttttt caggttcaat ttcacattct 240  
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gggctcccat ccagcctggt ggctgaagtc atctacaggt aagattgacc aaacctctga 360  
acaggactga aaaaaatggt atcttcagaa aaccagccct cttgtacact gctgctgtga 420  
atacaaattg attaaccttt ctggatggca atctancaat gcagatcaaa catttaaaaa 480  
tacatatnta tctcgacaca attttatctc caggcatcca catgaaanaa cncccaatgt 540  
tcaaaattgt caaataagga tcncn 565

<210> 7890  
<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 7890  
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ncaggcagga nccaccaggt tctgaggcca ggcccagcct actgcccana acccctgaaa 180  
cggctccctg ggaaaaagct gacanatggg tcaggggttg attganctgg aaaccatggg 240  
gacagatggc agggatagag ggtcatgcan tgggaaccac ccagtggctg ataaggacag 300  
ggaacttggt gctggaggct cccattggg ccatgggcan gggcttgcaa atggcctcag 360  
ctctgggggc aggtananaa actgcanaaa ctgatgggca tggaaaaanc canacatggc 420  
cctgggggctg aagggccttt cccctctct tccanaaac ccctttgctc tatactacat 480  
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ggcaagaaag aaacccttaa ttttctac 569

<210> 7891  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 7891  
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aagctcgaat atcatacatt aagcatagtt tgaattgtcc tgaagttata ttctgaaggg 180  
gctgtaacac ttaagaacta ataataattaa aaaggcaaaa gcattataac tcacagcaca 240  
caagactttt tacctcatct ataaaacgtg agaattgtcaa tgttttattg gctacaagga 300  
taaggaagga aacatcagag aaataaattt gataacaaga ttcacacttc attacaagtg 360  
attttcctaa attcacaact ttcacatttg gctgagtga agagaaaaac aaaacaaaac 420

aaaacaaaac	tgaaaagggg	actttcacta	cttgtaaagt	aggccaactc	acatgatccc	480
tccaaatgaa	aaaattttaa	tganaatgaa	tttactttcn	aactgggaaa	atatttccct	540
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<210> 7892

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7892

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atgaaagtca	gaagtttagc	gaaaattcgg	cctaaacagt	aataaatgaa	aatggaatgg	180
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gcactttggg	aggccganat	gggcggatca	cgaggtcagg	anacganac	catcctgact	300
aacacggtga	aaccccgctc	ctactaaaaa	tacaaaaaaa	attggccggg	cgtggtggcg	360
ggcgccgtga	ntcccancta	ctcangaagc	tgangcanga	aaatggcgtg	aacccgggga	420
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<210> 7893

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7893

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ttttttgana	cagggctctcg	ctctgtcacc	tangctgcag	tgtgatggcg	tgatctcggc	120
taactttgca	acctcttcct	caatcctcct	gcttcagcct	cccaagtagc	tcanantaca	180
agcgtgtgcc	acacctgtct	aattttttgtg	tctttttgta	gaaatgggggt	ttcacctgtg	240
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tgctgagatt	acaggtgtga	gccactgcgc	ccagccta	gtcttctttc	tgttacaggg	360
atccagtana	agatccacat	ctggagatct	tttcctttct	ttatatctat	caccgacatt	420
acctactctt	taaaaatttt	gtaaaaggca	taaatttgaa	aaatatatcc	tcattaatct	480
aatcaagtc	attgatacaa	ctatttaaca	agaccccggc	ctgcttgttt	tattaacgan	540
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<210> 7894

<211> 404

<212> DNA

<213> Homo sapiens

<400> 7894

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ttccaaagtc	catattgcaa	aacttgtagt	tctacaggan	atgttcttcc	aagggtgttg	180
gcaataaagg	ctgttgcaaa	acagctatgt	gaggcagcca	tgtgggagtg	acccaggan	240
aatgctccgg	tgtcctctgg	aaagcanata	cacaggacga	tggacnaatg	tgtcatcttc	300
taccactggg	aagctcagta	aacacacnat	atnacatgga	gacccgccc	aacctaactg	360

gatgcttctc ancnaagctc agtcgaccct cnncccctgt ttcc 404

<210> 7895

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7895

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aaatatagcc	acatataata	cataaatctt	cttcctgaa	atagagcagg	tcctgagcag			180
agctgactgg	gggccacagc	ccacccccag	ggtgaagtgg	ctctgggact	ctgccggtgg			240
aagtgttgga	agagcggggc	ttggaggaag	ccccagtg	ggttaccata	gccagaggtg			300
ggccgaggcc	ttaggggtgag	ttacccgaga	gggcagcagt	gctgggcttt	ccctcaactca			360
gccgaggctt	aatggaagaa	ctgggttagca	ttttttttt	ttttgagggt	acctcngggg			420
aaaagganan	ganaaggaga	gcctntntgn	gccttggtt	ccatttgggc	attcaggg			478

<210> 7896

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7896

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ccgagtagct	gggacttcag	gcccagtaga	gacagggttt	caccatgtta	gccaggatgg			180
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gcgtgagtca	ccgcgcccgg	ccaaaatatt	taaagacagt	atgacaggag	agtgggggtg			300
gcctgacacg	tagaccagcc	tcctgggttc	gcagagggtg	catttggtct	tctgctctca			360
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tagtggcaaa	ctcaagcaac	taaagtagat	cccaagcctg	gtagttcttt	tttcttctgg			480
gncttgaaaa	cttcatgtcc	cgnacctggn	atctttcaag	gatgtncggg	gccattccgg			540
gaantactgn	gtggcncac							559

<210> 7897

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7897

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acattccgac	aatccaacga	ggcggcatgg	gtcacatcca	gtttgatgag	gtgacagagc			180
cagcagtcac	catccatggg	catggttctg	aggggactgg	ggagacacag	accatacatg			240
atacaaaatg	attctgcagc	aagtctgaag	gagcgcagcc	tccctcctaa	tacataagaa			300
tgaacgtcca	ggtagcagag	agtaggcgac	ttgcataatg	agcgcatttt	attaaataga			360
tagttaacgc	actgcttctt	actcattcca	agttgctgta	ggtgctgccc	gcattaacag			420
cagggacaaa	agcttcctat	gcgcgtttca	gcaggaatac	tctnttcact	tcaggacttc			480

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ttnaagacac agggcantta gcttttaggg g 571

<210> 7898  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 7898  
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<212> DNA  
<213> Homo sapiens

<400> 7899  
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tcttctaccc tggagcaatt cttccccagt caccctccag ggaatgtcag aaaacgtgaa 300  
gaactttaga gactagaatc atattcaaac tttccttgaa agtagctata ataaacacta 360  
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<210> 7900  
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<212> DNA  
<213> Homo sapiens

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taggttgaat aggactggcc ttgatgcaca tgcagatgat ttgctttcat aatataaaat 360  
taaattgtaa tgcagctgtg attactactg gttctatatt tatgattaat tactagcagt 420

008270.69462960

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<210> 7901

<211> 489

<212> DNA

<213> Homo sapiens

<400> 7901

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ttctacgttg	ttaaaggtag	cttaggttaa	ttagtctata	cttatttaag	accaatatgg	420
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<210> 7902

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7902

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cggcctccc	aagtgctggg	attacagggtg	tgagccacag	cacctggact	atttctcgta	300
aatgtcaagg	aacaatttta	ttgtgttaat	acatttactt	taagcatcta	ctctatttag	360
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cattctttat	taccaaagtc	ccaataaaaag	tagtaattca	aaaaaactaa	aactcanaaa	480
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<210> 7903

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7903

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aggtgggtggg	ggctggccca	ggtaggccaa	ggggaggccc	aggcaggaag	ggtggcccg	180
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cttggagcct	aggggctggc	atcactgggg	gcctccccga	gctgctgctg	gaactccagg	360
cgtgtctgcc	ggttggactc	cagcaactcc	tggaggccgg	gcgtggaagt	ggtcattctt	420
ntctcaagtg	gccaaacagg	agttgatctg	gtccacattg	aatttatngc	nontattttt	480
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<210> 7904

<211> 496

<212> DNA

<213> Homo sapiens

<400> 7904

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ctccatcccc	atctctttcc	cgctagcgca	gctgggggaa	ggtgcctgct	tgcgggcccc	180
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<210> 7905

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7905

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catacacatc	tattacagga	atcacaaaac	ttatctccat	aaggaaactt	taaactccag	180
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ttaaaaaaat	tgcaaatttt	aattttatac	tttaatacct	ttagttttta	gacaacagtt	300
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tatagaatta	atccaaatca	tatagcaaag	aattctgaaa	actgaatgca	caattgggtca	420
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<210> 7906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7906

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aagctgctaa	aaccattttt	gtccaagtgt	ttgtgtaaac	atgtgattta	aagttccatg	180
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gagtgaaccgt	ggcggattac	accgactcgg	atctggcggg	cgtgagggtct	ggacgagtca	420
agaaagccgt	aaccaacgct	gttcggcagg	aagtaaaatc	tctttgnggc	ttggaagcct	480
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<210> 7907

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7907

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tcattgaagt	tctgagagct	taatccccgc	tttaggtac	acagtagtag	ctggatttcc	180
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ggaaa						545

<210> 7908

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7908

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<210> 7909

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7909

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cgggcggttg	ccagcacttt	cctcgggctg	tggcgtgtgc	acccggcctc	cccagaggag	180
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<210> 7910

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7910

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<210> 7911

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7911

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atttcgaaac	tggttgctta	ggtcttggag	ctctgtcact	aagggtgtcca	tagctgttat	180
gtcatcagct	aattccctgg	acatttctcc	agttgccaca	tctgtaaaaa	gttgctttgc	240
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gtatgccttt	gagaagcctg	gaatgccctt	tcattttcat	tangcttttc	actctggcca	480
ttttcatata	cgtgggcato	cagcctccan	aattctccat	catttggcac	tcttgaagca	540
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<210> 7912

<211> 579

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 7912

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aaactnacn	gccngatnc	ctgggaaggt	ggtgcttggt	ggcccaagtt	tcagcacaat	540
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<210> 7913

<211> 609

<212> DNA

<213> Homo sapiens

<400> 7913

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acatttccat	catctctgta	aggtaacctg	tgcaatttat	agttaaactcc	cattttccact	180
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<210> 7914

<211> 607

<212> DNA

<213> Homo sapiens

<400> 7914

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tttcaat						607

<210> 7915  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 7915

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catatcttat	agaaacatag	ctagtacaag	aacaaagtgt	actaattaac	attaccctt	180
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aatatagcat	gtattactta	tttgtaagc	cttacactta	cgatgagcag	atggtttatc	420
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<210> 7916  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 7916

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<210> 7917  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 7917

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ancanattct tattgaattt aacaatnaa 509

<210> 7918

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7918

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<210> 7919

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7919

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<210> 7920

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7920

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tgagctgtcc	attgaccact	gcaggccaac	tccactacgg	cgtgatgtca	tggccaccac	480
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<210> 7921  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 7921						
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acacacacac	acacacactt	catcctaata	tgggcattaa	gacagtgtgt	atcacaataa	480
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<210> 7922  
 <211> 580  
 <212> DNA  
 <213> Homo sapiens

<400> 7922						
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ttacattaca	gcttgcatc	tatttgtata	gtactgtcct	gctcaagatg	gattaacagg	240
tgtgtgacac	tcactgcctg	ctgagagcag	ggtgtaggga	acctgggggtt	ggaaaggaga	300
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<210> 7923  
 <211> 581  
 <212> DNA  
 <213> Homo sapiens

<400> 7923						
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<210> 7924

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7924

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gacaggtgcc	cgccaccatg	cctggctaata	tattgtattt	ttagtagaga	cagggttttg	180
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ccaaagtact	gggattacag	gcattgatcta	aattctttat	acccttcaag	ggcaggaaac	300
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<210> 7925

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7925

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gggctccagg	gaagtggaga	tgtaattctt	acaacaacag	ttctgatcat	ggccatgggtg	180
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<210> 7926

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7926

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gccatgttgg	ccagggttgg	ctcaaactcc	tggcctcaag	tgattcacct	gccttagcct	240
cccaaagtgc	tgggattaca	ggcgtgagcc	tccacacctg	gcttagacct	gacttttata	300
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<210> 7927

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7927

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<210> 7928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7928

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cagttttttt	ttttttggtn	gggtggttgg	tgaanctctg	gntttttttg	agcttcctnt	540
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<210> 7929

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7929

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<210> 7930

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7930

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<210> 7931

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7931

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<210> 7932

<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 7932

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<210> 7933  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 7933

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<210> 7934  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 7934

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<210> 7935  
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<212> DNA  
<213> Homo sapiens

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<210> 7936  
<211> 577  
<212> DNA  
<213> Homo sapiens

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<210> 7937  
<211> 582  
<212> DNA  
<213> Homo sapiens

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<210> 7938

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7938

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aaaagcaaga	tttcaatata	tacttacaaa	aatgaaaagt	gctttttcat	ggcaagggtta	180
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tacttgaaga	agcactgttt	ttcacaatca	taataagagt	aattaaacag	ctagaagcaa	300
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aaataatttg	tcaacataaa	tatgtcaaata	gggtttttaa	atcattttct	tcctgttcc	420
ccgacaaaaa	aagtcctctg	gogctatgag	ctatatattg	ctgntcactt	actgntgaat	480
ccaaactagt	gaaatgatac	cgggtaacta	ttacncagag	cattgacact	aanttgaggn	540
ggaataatga	atanttaatg	gacctccttt	aagcnggaac	ntatactttc	atgggtgccc	600
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<210> 7939

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7939

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gatattacta	tataaaaaat	tgaaagtatt	agtttttatg	taaaatatta	gtttcttcat	180
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tcgtcaaaaat	aacttaaagt	attaaaagac	aacctaatga	cagtaataac	atttttcttt	360
cctaaaaaat	atttggtatc	tgatttaaag	acatgaataa	cacaatagta	acaacttaaa	420
gatcgacaag	atatactaaa	aatgatattt	gggcatcata	tctacataat	aattgngaaa	480
cacctgggtt	cctaataact	gagaaccatc	agtaactttt	tcataaaaagg	acttcatagc	540
tctaaatatg	gaatcaaccc	tggaagccga	acccttacat	ggcaaacacc	tacgggggta	600
n						601

<210> 7940

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7940

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tttctcctga	taattttgtg	ttactttgtt	caggctcttt	gtagcagctg	tgtactgcta	180
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aaatttggct	tttcagcaac	gttgtattag	gctaattggat	gacgtttaaa	tccacggcca	300
aggtaggata	agagtgttat	ttctgctact	gctatttttc	caaagaagga	taacttttaa	360
aatactagag	ttcacaaata	atttgtcaag	actgtatata	tgagatatga	ccattagttg	420
ggctgttatt	agggttattt	cagcactgag	tcttttagagt	caatgcaccc	tcacaattat	480
aaaatgaggc	tataaggnc	ggaagcatat	tgcaaatcat	ggtagagatt	atccttcnta	540
naaaatccct	tcttccttta	gactaagnaa	atttttcccn	ggctnaagcc	tc	592

<210> 7941  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<400> 7941	
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ctgtttgacc	cacttaacta
aaatgatact	atagatcctt
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ttacacatct	caaatccttt
gatctactta	cttcgtactt
taagaggtaa	atttgagaat
gaaaatggga	gactccaatg
caataacacc	tacataagga
aaaacacaca	taaacaccca
cacatattcc	ccagcctcaa
aactaaagca	aggtagacac
ttacatttcc	aaaccccaaa
gcctaaactg	tccaggaaaa
gattctagct	ttgtgggctg
agtttatttt	gcttctgggt
ataaacaat	gtagtgtata
cacacatctg	tccaagaaat
cttgcaaac	gtggatttta
catgggggat	catgcacaag
attaaaaaca	agaccaaaaag
gtggaaattt	taaaagagga
aaatataaag	gctccaaggn
ttaactgctc	tggggtagaa
aagatcacat	ctgggtgactg
aaggatccca	gaaaggnc
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c	601

<210> 7942  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 7942	
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cttataccta	tctgagtatt
acagaagatg	catatacctt
ccagagctca	tggaggaaag
agtgtataaa	caattttgat
aaggagtiga	aaaacaattt
gaaaatagtt	tacaaagaga
gaatcaggag	gcagaaaaag
cttcaagagg	catgggtctt
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gtttcacttg	tatcgatgtc
atgttcctgg	ttcaatttct
tgaactccac	cacttggaag
aagacgtgct	caaggatatg
tttggcatcc	tgtttggtcct
ttggtagttt	actgggttac
tccaagaata	tcaccacact
tcctgacata	aaattccagg
tcttcttcag	tacacttatt
gggaatctga	cccagcccgt
gccttcttaa	aggaaaaccg
tttcatctaa	atcaaaatag
cttcngaagg	aggaaggggg
taactcccgg	naacctggga
nggaaaaacc	caggctg
	557

<210> 7943  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

09629469.072800

<400> 7943

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aagattaagg	taattttacag	tcaatctgtg	aatgaatgtt	gagacaatgt	facattatgt	180
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aacaaacctg	actaaccggc	acttttgctg	ggagatgttt	gtcaaagatg	ctgtaagatt	300
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cagggtgtttt	gctcagagag	cctattgcag	tatgtttcca	gaaatgcagt	cccaaagtgt	420
catactctat	attggatata	aataaaacaa	aattatcagt	agtataaatc	ttacngcatn	480
gnttgcnaaa	antgcatgcn	aangtc				506

<210> 7944

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7944

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ttcacatgta	cttgtcaaat	ttactcctga	taattcacia	aaacatacaa	ctcaacaaaac	240
tgtgcacaat	aaatccaagg	caaattatat	acaaagaaac	aaaacaagct	tttaagtagc	300
acatattcat	ttgaaataac	taatattgaa	agaagacagg	gaactttctt	ttaatgccat	360
ggcaaagacg	aagcgaagag	ccacacttca	caccttgtaa	aaagaatagc	cctgttcaac	420
aacgctgctg	tgacagccac	atcaggaggg	gccacgggtg	acacaggaaa	tggctttggc	480
aaatcttgtc	cactggaacn	agtgaagatt	caaagtaatn	gggaagncca	ctgganttcc	540
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<210> 7945

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7945

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agataatttc	tttaggctgt	gatacctgca	ataaccaatc	tgttctcatt	tggatcagat	180
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cctatcgacc	ttgcttatag	cagttcaggt	atagactatt	tgagccttat	atactaaaact	300
gttaagccag	tgctgtccct	atgccctgct	gagaatagat	tccttctgta	cttgagcccc	360
tcagatgctg	aattgatcaa	tcaatttttg	agacggggct	tcctctgtca	ccagggtctgg	420
agtgcagtgg	tatgatcttg	gcacactgna	accttcggct	tctgggtcaa	ggggatcttc	480
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tc						542

<210> 7946

<211> 516

<212> DNA  
<213> Homo sapiens

<400> 7946

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catccctcac	atataaatac	aatgaaccag	atgaagatcc	gtgtccgtgt	ccatgacagc	240
aatccattca	gaagatcaaa	gataaatagt	ctaatacacc	aatttctgac	atttgcttag	300
cactgcagga	ctcatgaaga	gctgccactc	atattatctc	atttaatccc	tacaacaaaa	360
accaaggctc	aaggagggtga	gtccttgacg	aaagaacagt	aacagactcc	acagggttgc	420
aaaacagcca	tatgacagag	ggctgaggaa	gcctatgata	gtaggctgag	gaagcncang	480
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<210> 7947

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7947

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taatacaaag	gataaatgct	gaaggtaata	gatactttat	cctgatgtga	ctaatacata	180
ttatatgcct	gtatcaaaac	atgttatata	ttgcataaat	atatacacat	ttggccagggt	240
gcagtggctc	atgcctgtgg	tcccagaact	ctgggaggcc	gaggcaggca	gatcatgagg	300
tcagaagatc	gagaccatcc	tggccaacat	ggtgaaactc	catctctact	aaaaatacaa	360
aaattagcct	ggtgtgatgg	tggacgcctg	taatcccagc	tattcggggag	gctgangcag	420
gagaatcact	ttgaaccggg	gagggtggggg	ttgcagttag	ccaagatcat	gccactgtct	480
tcaanctggg	tgacanaacc	gagaattcat	tttcaaaaaa	aaccnaaca	agttntngcc	540
cctgtggggc	cannttcttg	gg				562

<210> 7948

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7948

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tgacattcag	aggggcgagg	tttcttgaat	agccaactag	ccgcaaaacc	tacaagagaa	180
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agtattcaga	gaattcacia	aacaagctga	tattaaagta	ttcagacngn	taccttgat	480
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<210> 7949

09629469.072300



<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 7949

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cctcgaggag	tattctgagc	actccaactg	gagcctcttg	gtccttnccg	acgactgnag	480
gttcnntttg	aagcangtgg	tgtgaaaaac	cctattctga	ctggggnaag	cccccggcct	540
ctttattggc	tggaaaacca	cc				562

<210> 7950  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 7950

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gaacaaagaa	aaaatgtgct	tgagaaacac	agtccagggt	aaaggaaaac	tctcagatcg	180
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aaccaagagt	aagtttaaca	tgtcagcagt	gaggagtaga	cattttctac	tatagcacac	360
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ataaataata	tggcaacatt	gctactggag	atacataata	tcagaagcct	aactattaag	480
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ggacatcatt	tttcatagcc	n				561

<210> 7951  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 7951

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ggtccctgga	ggtgtatatg	acaagttgac	agaaacaaaa	aggtgaagac	cctgctccac	420
ccagtataga	gcctcttttc	tttggnggct	catggaaacc	tattaacatg	ccttcacata	480
agtctctata	tataaaacta	tcaggcatta	tgaaatnaat	tgagtagacag	ncacttttga	540

naaagtgcta .t

551

<210> 7952

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7952

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aaactgtaaa	tacggaacta	ggcacatctc	aatgttctgt	ctctgtgttt	acattactgg	180
ataagaaaat	taagcattct	tcaacttttc	tatgggtctt	aaaattcatg	gaatatgtgc	240
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tacattaatt	tcgactttta	taagatgtaa	ctcatacaac	cactaagcta	aagaataatc	360
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cagattgagc	tctccttacc	tttactgntc	agttgagagg	ctcttaattc	tctaaaggta	480
gacnaactat	gcnaaactgn	caattaaaca	gnggatcatt	aaattcctta	taaaccttaa	540
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<210> 7953

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7953

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cagtcacag	aaagtcacct	atgagttcct	aagaaccaca	acacatggca	aacatgatat	180
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gtgacaatag	gtagttttca	ggggcacaga	ccttgtgtg	ggtgatggaa	tctaagaccc	360
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tgctggcctg	gcgggggact	tggctgacct	ggccttcgna	cagggtggact	agtcacagaa	480
cttgggcact	ggggggcctg	ttggcangcg	aaacaacatt	actggcttgg	ccggcaaaaa	540
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<210> 7954

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7954

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ggaattacta	tttgttgaat	gcctattagg	tgctgtatta	gttcttgtac	tgctataaag	180
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gctgtacagg	aggcatggca	ggggaggcct	caggaaaactt	acaatcatgg	cagaagggtga	300
acaggaagca	ggcacattga	acattgctgg	agcaggagga	aaagtggggt	ggggagggtgc	360

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-3123/13211-

cacacacttt	tagacaacca	gatctcacga	gaactctatc	atgagaacag	ctctagggag	420
acagtgataa	accattagaa	accaccccca	tgattcaatc	accttccacc	aggtccacct	480
tcaacattac	agattacatt	tcaacatgag	aattggatgg	ggatcngatn	ccacnntttt	540
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<210> 7955

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7955

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tccccgggca	taccaatgng	accacgatng	aaancngaac	aagttccttg	gntacttcct	540
ccttgg						546

<210> 7956

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7956

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gacacatgca	tggaaattat	taatgctata	agaatctctt	gatatgcagt	ttgtattttt	240
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taagactaca	aagagaaatt	tattggtaat	ttaggagatt	ttcaaggacc	attctgagca	360
tgctcaattt	tgtccttagg	cacggtcttt	aaaacctaac	caccttacaa	gttgtgactc	420
cactgtccaa	aatgaagact	ctgagacttt	tgggcaaaag	aaccatttta	agtatttgac	480
atgagaaaga	tgacaggatg	aatccncatt	ctctcanata	atctgggaac	canggaccag	540
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<210> 7957

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7957

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gtattggtat	agcaataaaa	tcaatcaaaa	tattgatgta	aaaacgtttc	ttacagagta	180

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ttaaatacaa	ttcatatcag	aattaacagt	aaataatatt	tttctgaata	tgacagcaaga	360
gtagaatcca	aattatcctt	atgtaaatca	taagaaactt	ataattaatt	atagatgac	420
tggaccacta	tgacattttg	aaaaaagggg	aaaaaacact	aaatatacct	tacaaataat	480
tctaccaggt	cttaaatfff	tatgagacgc	tatgggggta	aatgtatcat	taaatgnata	540
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<210> 7958

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7958

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tgctactcgt	ttacagggtgt	atattcagtc	gctgaacaaa	tctccgtag	gggogctgtt	180
cgtgtgctgg	gaacacacag	gtcaatgaag	agcagccaga	aagccccaag	ctctggaggc	240
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ttttccttcc	ctcgggtcaa	ctcttcgtcc	cagtcatcaa	ccacggnctc	agtccggcct	480
gtctgctggc	ttcaatagca	tcctgactga	ccgccgacat	tttggcattc	caggcagaac	540
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<210> 7959

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7959

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tacactgggt	tccagcatta	caggcaacac	tagatgtact	ttttttaatg	aataatgtaa	180
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cagaaacggg	tcagtcagca	ctcgaaacaa	gaaactgtga	ggggagaaaa	ggggagccac	300
cagtgtcatc	tgacaaaaac	gatccgtcaa	agtgttttcc	ctttcacacg	cacaaaaatga	360
aatatttgaa	catttagaaa	aacaaagcac	ccatcccacc	aacttcggcc	tgttctttta	420
caaataattc	aaaatactgg	taaataatag	tgactgctag	cagaattccg	tgccagatcc	480
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<210> 7960

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7960

gttttttttt	tttttttaag	taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	60
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09629469.072800

gaccactcca	taggcagaga	aacgtcactt	taaggttttg	acgtcaattg	atTTTTgtcc	120
aatcaataa	ttactgcaat	gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	180
caaggctctg	tgaactctgg	atccaggctg	tgtcaacagg	gtagtgtggg	gcctcctgta	240
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cttcagaagg	cttagcttgc	acttttggaa	gaagaataga	ctcccaggaa	gactgtgaga	480
gagatttggg	gcccaaattg	atattaacaa	ataccctgaa	cttgctggat	tcaccatggt	540
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<210> 7961

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7961

aacatcaaat	ttggtttatt	tcaagtttgt	aacaaaatat	attctaggca	acttttcaga	60
cattgtttta	tagcatcata	aaccccatac	cactgctgtc	attccaaaag	ctgccaggac	120
actggaagtt	atcaagtggg	ccagccctgg	aatacaggta	gaattcacat	gatagggtgat	180
aagaaagcaa	tgtctgtggg	ccactctgat	ccctcttttt	accttggtag	gtaagggtatg	240
atcttaagac	tatatgtact	gagtcctatt	agtcagtga	aaagattaaa	gtgacaagtt	300
atgtgctttg	ttcctatagc	tttgaagttc	atccacctca	ccagcaattg	gaagggtctca	360
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gagattactc	aagggagaga	acaacagaaa	cggaaagccat	gagtactgcc	ccaattctag	480
attangttan	anggtagaat	aaattaacta	atgggggaatg	gtantgggta	gcagcanacc	540
cnagagacag	aattgngggg	gttcctggac	ttaaca			576

<210> 7962

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7962

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gttacactat	attgcacat	gattggaaat	gagccaaaac	ctgtctaaaa	gatgaacatt	120
ccagagcaaa	cagcatcggt	ttacttgggt	taagtaggca	tgcaaacaac	tcattataac	180
ataattgcag	aaataaaaaat	tatgagtact	ggcaacctaa	acttaacata	taaaagaagc	240
acttcataac	taataaagta	ttaaaaactt	taaaacatgt	catttaaaca	atcccacat	300
caggaaaaca	tgctttgaac	cattttcaag	aagtgatcat	gtgaatgcat	taatttactt	360
gttttaaat	ttttgttgtt	gttgttaatg	cttatatatt	ggaccaatgg	aacacatttg	420
tttggctggg	ggttcagaca	cacagtttgt	ggtgtgaaag	acattttctt	tnctctgnac	480
aataccggag	gaccacagag	caatccaatt	ctaaatctga	ccttataata	ccatnttcca	540
gttgaccaac	cttataatgg	aagatntctt	anagctttcc	anaaagcng		589

<210> 7963

<211> 578

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 7963

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aaaatcataa	tacaaacaga	gctaaaatca	cgctaacaaa	ataaactaaa	tatgaaaagt	180
tgcattgaaa	gggcatcaca	ttattcttaa	taggatcgtg	tagaaacatt	ccaatggcag	240
tgttctcaaa	ataaaacaaa	attacattag	aagacctcca	gcctggccac	ttttgggacc	300
ttacctgtaa	ctctggctgg	tgggtgtctt	tactcttgta	ctacatggct	cacttacatc	360
agacatcata	tttgtatacc	ctgagaaaatc	tgacactgaa	gtccttactc	tatgggtccac	420
ttctccatta	gagttagtga	taaagggtcat	tggcaccctg	ctgcccgaact	taaactgaga	480
ccaaacgctt	ggtgccaagg	tctcaatctg	gaacngtggt	ctaagctcta	tgncctttctg	540
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<210> 7964

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7964

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gtaaaagaac	ctcaggacag	ccacatgctc	catgccctgg	ttgggggaag	agggagagaa	180
aagcgccatt	gatagcttgg	agctcgtana	agggtctgaa	gcccctgaac	ctaaccaccag	240
agccacaagc	cctgcccctg	agggctcaca	cactactaca	caagtagaca	cacataacac	300
acacaagaca	ttatgaaggc	aacaccgaga	ggcagtgggc	aaggacatat	tgacagaaaa	360
aggaaactgaa	gttaagcagg	tgtagccagg	agagacaagt	ttttggctgc	ggcccccaaga	420
gtccctcaaa	tgtcccctaa	atctgggctt	ctgttgagca	ccccgatctt	tgccctgtgaa	480
ccgggctctt	tggcttttaa	gccccangga	gtggaaaacc	aatcccgatg	aagtontgga	540
caagnaggat	ccctttttat	tcaa				564

<210> 7965

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7965

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aacagattgt	gtaaagcagc	cagggccaca	ggagtgaag	aagatggaga	cccgcctct	180
ggtcatgata	tgagaggcct	ggacagtga	ctcacgaaca	aaaagaaatg	atcctcttca	240
gtccaaagt	tgtttgtgag	actaatgact	ccatgccctc	acatggccac	tcctctcaca	300
gcagacagct	tactccgct	ccagccccgg	tactgcggtc	tgtggttaatt	tacatgggaa	360
tgggatgaga	tctagtagtt	ttagatccaa	cgcaattctg	ggaagggttg	gtaataaacc	420
aaaactcaat	ctatgcagta	tttaaaaaat	aagtgagaag	ttgtgacaac	ttcgattctt	480
ttcaggangt	gctggcttaa	gatagaagaa	agggatcagc	tcttatctta	gaagcccaga	540
cnctttaact	naggaagt	caatcaatgg	ctaa			574

<210> 7966

<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 7966

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aactacttaa	ggaaggaaaa	atatccccct	ccccagccag	gtactgagac	ctggggctaa	120
aatTTTTTgt	cagtcagccc	ccatccccat	cccttatctt	cgagtgcct	taccaggaaa	180
cctggctttg	gtggaaagga	gagctgtggg	gcttggggag	cctgatgcct	tttcttttgg	240
gaggaaaggc	cacctgcaca	atccacagga	caggagtggc	cagcagctat	cctgagctga	300
ggctccagaa	gagttcagat	ccaagagagc	aagggatgaa	tggaaggaaa	gtcccaccca	360
ccttcatgtg	taaagtgatt	ggcatttact	caaattctaaa	tctactcctc	tcctccctgc	420
aatataccat	tgagcatgtg	ccaaataatg	gtttgaacaa	aagccaacac	agatgtcaac	480
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ataggttaag	cnggaaattt	aanttggtcn				570

<210> 7967  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 7967

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gggactcagg	cagactccag	ggaggaggag	ggggttccac	ggctgacgcc	caggtcaccc	180
ccganagggc	ctctcctccc	agccacccag	gggcanancg	gaggcaggga	cccaggctcc	240
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gtggcctgag	cactgggcac	caggctggag	gtccctaggg	cagggaccaa	gttggggcct	360
ggttgtccaa	agccaacgtg	tgaanacggt	gtcttgtgaa	aaatgtgcac	caatgtgcct	420
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<210> 7968  
<211> 535  
<212> DNA  
<213> Homo sapiens

<400> 7968

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agggaggcag	gccggccgct	cccggctgca	ggaggagaag	tttttttttt	tttttggttt	180
tgTTTTgtgg	ttatTTTTtt	ttacaacttt	aaatacggaa	tataaataaa	ttttacattt	240
aaaaaataaa	aggaaagccc	ccaaaaatat	aatcaccgac	tttacaaact	gaaggaagca	300
ggttttggaa	ggcgggaagg	gggaaaagtc	attangtggg	aagggagggt	ggagctcaaa	360
tcccacccca	gggggtcttg	gggaactttt	cccttctctc	ccccattccc	agcccacgag	420
ctggtttcct	aggaggagcc	accagaggtg	gagcctcana	aagggatcaa	ngaatgggna	480
aagtgttcan	nccatggaag	ggnttccggg	caaaaagggc	ttganccttc	cttgg	535

<210> 7969  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 7969  
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tagaaagagg gaaaaggaag gcccaagaac tcttaaagag aggctgagaa caagaacaaa 180  
aaaaccacaga agtgtaggta atacgtaaca gcgcagacag aaccgttgta ggccatgtat 240  
aataaataat gcatgcccc aatttcagtt aatcatataa tttcaacttg agttctaata 300  
ctggaaccag ccaaccactt gggcttcaac actgtactag atgtcagtag aatcgottga 360  
tggaattaca gccttggttac agttgagatc aagagagggt gctttttttt tttccttctt 420  
ttattaaagc tatcattcca ggctttgatc aaagatccaa gaatatttgg tctaccaggc 480  
tggaatgaat gtggnittga agtcagagta catttaaaag ctgcacccaa attingtagc 540  
ccacaatctc aaaatttggga tcanccaaan gaga 574

<210> 7970  
<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 7970  
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ttcaagcaat tctcctgcct cagcctccca agtagctagg attacaggca cacgccacct 180  
tgcccggtta atttttgtat ttttagtaca gacagggttt tgccatgttg gccaggctgg 240  
tctcaaattc ctgacctcag gtgatccacc tgccttggcc tcccaaagtg ctgggattac 300  
aggcatgaac caccacacct ggtcttgttg aggattcttg catctatgtt catcagggat 360  
actggcctat agattntttt tcttngntcc atatctagtt ttggaatcan ggtaaatgct 420  
gccctcacan gatgaagttt gagaactggg tatgaanttc ttctttaact gtcagtatga 480  
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attnaaatnn 550

<210> 7971  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 7971  
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caggatgatg cttcaggaac tttctgggca caaagtgtt cttgggtggac aattttttaa 180  
aacacacaga gccacgtggg tcacctattg tcaccaagag aaaaaagaac ctcaaaatca 240  
gtgacgcgac aggaagaatt cggacctgtt ctttctgagg aagttcttat ttttcctgta 300  
actgtatgac ggcacacac cttcctcctg aacgtggggg ccatagtcac tgactccgcc 360  
agcctccac cagtgtgctg gtgtaggagg agctgcagac gtcctcaagc agaagtcaact 420

09629469.02800



&lt;210&gt; 7972

## <212> DNA

<213> Homo sapiens

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cattgcccac	ctcaaagtgc	tgggattaca	agtgtgagcc	accacaccca	accaggttat	120
ttgaacattt	ttaagtactg	tattttctct	attgtaatat	tgactgtcat	ctctgtgcag	180
gttttttagt	ggttgctcta	ggttgaaacg	ctttgaattc	ttaggtatct	aagagtgagc	240
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aatgctctcg	tttaggtaac	tcagcttctg	gagttgaggg	aacttcaaaa	tcagaagagc	360
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cactgcttag	agtagttggt	ctccagtact	aggaactatt	ggcacatctt	tatctctgct	480
ttcaaatcag	agtaagtatc	ctttgggcaa	attacatttg	gtcatganag	angcaggaat	540
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**<211> 568**

## 〈212〉 DNA

〈213〉 Homo sapiens

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aacagccaat	acaattaaag	tagaaacaca	atttttaata	ttccttatca	cagccatttg	120
aagctccttt	ctgccccaaa	ggtctagact	gccagcagag	gccctgagac	aaaggcactg	180
ctataagatg	cagactgtat	catggcacag	tgggaaagtc	accatgtgca	aaatccacgg	240
cttgccctgcc	tctatgcctc	agacaggaac	aaatcatggg	atggatctgg	gatctataca	300
acagctccat	gaggcaggac	aatcatatga	ggttttatgc	tgaattacac	ccattttccc	360
aatgaggaca	cataaaacct	cccaaacatg	tgagaagttt	cagacccaaa	tataataagt	420
gatgtatagg	catgtgacct	gcgaagtgag	tttgtcaacc	ttgtttcact	tgagtgtgaa	480
aaatgcttta	taattttgat	aatcttacct	ttagcagctt	tttaagaaat	aacttgctcc	540
aaggggcccg	ccccatnggc	ttatgcct				568

**<211> 563**

## <212> DNA

<213> Homo sapiens

caccaaggaa	gaaatacctt	tattaggagt	ctaggcatgt	cagaaaaacc	cagttcagtc	60
acagaaaagg	aggcaaatat	tggtacagag	caagaatcca	agtgtgaaaa	taaaacctcc	120
atctaaatat	cctaacagaa	atgctgctga	atttagccca	ggtgaaaactt	ctgaaagctc	180
ctggtgaaat	gagattttttg	cataaagaga	gagctctcca	gcactgctgc	atctgagctt	240

cttataaaagt	gacgggtctt	ggccagcagt	agaggaagag	ataaagggga	tgtctcatca	300
cccaagcaag	gtcgtctgtg	ttcaagttag	agaagaacct	tagggttttg	gacagagtaa	360
actggggcag	cagagggaaa	atggctgagg	aaacacaacg	tctaggccgt	gtgtggcata	420
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ggcattcctt	nctgaggcca	tttgggtctg	gtctgacttc	ttcagaacag	aactggccaa	540
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<210> 7975

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7975

aaaagtattt	attatagtaa	aggttactgt	tgtaaaacat	tagtgacttt	gggccatata	60
ttatttgcca	tttgtcttta	aaacatttta	cattattttg	atcataaatt	gtaattttta	120
tgactataca	taattgggtt	ttttcctgac	ccttggaatg	ttagtttcat	gtaacttttt	180
aaaaaattaa	aacattgcag	actaaatgta	ctgataagta	catactgaac	acatttaatt	240
accacagtaa	ttaaaaagtc	ctgatcttta	cttcttaaga	tgaaaattca	ttaacttgca	300
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ccactactga	cagcctttat	gtaacagtca	tggttcccga	tactgaagtg	agtttcaagt	420
cccacatcat	acaaactcac	ccgctgctcc	aattttttac	cattgaccat	acgtccatag	480
catctttttc	caaaacaatt	ctaagggtct	accatcctgg	nggtaatan	ccaagantgg	540
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<210> 7976

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7976

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ganaatagag	caaaatttca	atattgggtt	ctttataaaa	ttgatgaatt	tctgaaaaga	120
taaaggatca	tttgattttt	aaaaatgtca	gcttcatcac	atgatgttcc	agagatctga	180
ccccaaaagc	ttctcaagtt	ttactatcca	tagtgctcct	atttgtaact	gagacccatc	240
cgttattttc	catctgaagc	ttcttcagca	gtttataaca	aagtgaaaga	agttggacta	300
agagagccat	catggatctt	gncttcgtaa	tacacttgtc	aacctttaga	aatactntat	360
tctgcaaaga	agtcttagtt	actgtctgga	gctgggtggc	tanaggaatt	agcttggtat	420
ttccaggaga	ancataagct	tgncatcngc	tttcaactgn	ttttgaaaaa	gcttgnacnc	480
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<210> 7977

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7977

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ctcattccag	agcatacatt	taaaatgtac	agctacatca	tctatttgca	acaactgcct	120

aacaactgtc	tcttagaaat	aaaagttatg	tgatttcttg	ctaaaagcag	ataaataaat	180
gagcagacaa	ctaagatcac	ttcatcggat	gccagagctg	tctgtccaag	aatgcaacca	240
agcaaaaata	attttgtctt	caaaaataaca	gaaaaacata	ttttttgttt	gtttaaagca	300
tagaagtact	attattaagc	acaaaaataa	aaaaacgttt	taggtagt	gaactacaat	360
ttaaaactga	attatataac	aggtgccatc	tagtgttata	aattaaaaact	gcacagaatt	420
ataactaatg	tgtagttatt	aaaagctaaa	ttatatccaa	agcaattcag	ngatgtcatt	480
gctcacaatt	caaacttttc	ctgaatctgg	atgcctgnct	ggttaaagac	attactattc	540
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<210> 7978

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7978

gagaaatgta	gttttattaa	tagaaggga	tgtcttacca	tacacactgt	ccccagataa	60
ataaaatccc	aacatctttg	aaagcacaca	aacacacagt	tttacagggt	acaatacaaaa	120
gtgaactttg	atgatgttct	tacttgcat	tactaaaaat	ctgagaaaga	ctgtaatcag	180
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ccaaatcaca	ctctctgtaa	cattacaaca	tgaattttac	ttaatcaaaa	ataaaagcaa	300
actggctgaa	gaaggctgta	tcattttttt	ctcaatatta	cgctaatttc	tatttttggc	360
atgaattatt	aaccttttcc	attagtaggc	aatgtgtctc	tgcaaattct	cggatggcac	420
cacggccacc	attacatttg	caaagtgtat	caacagcctt	ctgggcagta	gaacaggcat	480
cagcaggagc	cgccacttan	gcccacttct	tttagcactc	ttcatcagac	acttcatttt	540
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<210> 7979

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7979

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acaactatac	tttcaccatc	actgtatctg	tagcagggtat	cgtacagcag	gtgcttttaa	180
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agctcagtaa	agccaccaga	gactaaagct	gtaggacaa	tatcaaattc	cttacattgt	360
aatatgtttc	acaatgacag	ttgatatactg	atgcctatgg	aatataagga	aacaataaca	420
tttaatccat	cattctgata	ggcacaaat	caanggtggc	tcaattttga	gcaatatcaa	480
gaaggctgca	aaacagtnca	cagtacttta	actnaagcca	gaatggcttc	ggcacctggg	540
aaattggctt	gcctcctnan	c				561

<210> 7980

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7980

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ctgttttgca	gtcctccccg	taaaggga	aacctatgata	gcgatacttt	ctaattttta	180
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gcagaccaca	cattgcatag	taaggcccca	gaacatcaaa	tattcatctg	aacaaagtaa	360
tataaatatc	ctcaggtatt	tcctcctctt	acacactgta	ttcccagctt	caaggcctgt	420
agttcttttt	tctcanaggg	cctggaattg	gaaaagagat	gaggaattaa	gaagatcaca	480
gcggncgtgag	ctgcaaatcc	tgccctangag	cacaccgctc	cnttgangnt	caattctctt	540
caacaatttg	ncnct					555

<210> 7981

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7981

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aagaaatcag	aaagcaagta	tccacataca	aatgtataat	agtgaacat	gatagaaatg	180
actcaagttg	tggtacctca	aatcattagg	ctactataga	aataaaacca	gtatcttgta	240
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cactcctcca	gtgaagtgtc	ttggttgttg	aaaagggtact	ggctgaccat	tacacttccg	360
gactgggtca	aaaaagaatt	tagtattctg	cctaaccgtt	tcagacaatc	tatctttaat	420
tatactattc	gaatctttat	ttttctgaag	atcttccaca	cagagattan	tagangagga	480
gttttcatnc	tcatctcctt	ttaatTTTTT	anncccagcc	aaaattncta	agaggttggg	540
gaaaca						546

<210> 7982

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7982

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atattaaata	tatacatatt	ttgagacagg	gtctcgctgt	caccagggct	ggagtgcagt	180
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tccttctgag	tagctgggac	tacatgcgca	tgccaccaca	cccagctatt	atTTTTTattt	300
ctttttgtan	agacaagggc	tcactatgtt	tctcaggctg	gtcttgaact	cctgggtctca	360
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tggcctgatt	atctgnTTTT	tgaatagtga	ccctaattng	cttttccaag	tccagtactt	480
ttgataaaan	tttttagcaa	gggcttcatc	tanggccatc	ttctgggcat	aatataattt	540
cttnccaang						550

<210> 7983

<211> 556

09629469.072300

<212> DNA

<213> Homo sapiens

<400> 7983

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attgatcaag	catttataat	gacaagagtg	taagagtaac	taactgcatg	gttacaaagt	180
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tttaagcccc	taagcagcca	taaacaaaag	cccacttgac	aaagaaatgg	tatgcttggt	360
taccatagga	catctcactc	ctctggcctc	attgcttaga	tccttccttg	aactcagagg	420
ttctaaaagt	acccatatct	tctaataaag	aagaaaatta	aagtcaaac	tgngtgaaaa	480
tcaggccaaa	aagtctaaaa	atnccaaaa	tgggggnatn	ccccttttaa	ccacnggata	540
gggatanttt	cttgnc					556

<210> 7984

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7984

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cattcatgaa	aaactaacag	ctattctttt	cacagggaata	gtcaaaaaat	gagttgaagg	180
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aaaatgttgg	tgattagaga	taacaggaac	cgggcaaggg	aggaattttt	acatacgttc	300
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gttttcttca	atggtttcaa	ttgtctgttg	gacacaacgg	agctgagaac	cattttcttt	420
caaagagctg	aagaatcctt	ttacctcttc	aagccgggtc	ttgtggagaa	ttgatttggt	480
gnaccatta	ccatggtggc	tatgggaaga	tgaaccagg	ttcaaacttt	tggccaagtt	540
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<210> 7985

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7985

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tttacaggca	aaaagaatga	ttcctcagca	gtcattgtga	aattttgtgg	gccacaagta	180
ttgtgcacac	atgatccttg	atttagagtc	aacctgatgt	ccattatagc	tgtggaaaagg	240
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ggaacaaaag	cattgatgta	aatgtgcctc	aaagtgagaa	ctgaaaacat	taacataaaa	360
taaaaaagtc	aaataagact	aagtctttac	aactacctat	aaaaattgaa	ttattacaac	420
taaagcagca	aatcaaaaaca	tctgctgang	gtttctggta	gaacaaccac	caaattagtt	480
ggggccatgt	tcaataagta	ctancattgc	caaacttaat	ccaaatngga	aatggaaagg	540
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<210> 7986  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 7986  
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aaciaattga atactcaatg agtaaaatat gaacacagag aactacagaa aatcagaaaa 180  
ctggaaataa gaacagaaat atttaaaata ttggaaaaac agaaattatg gaggtaaaaa 240  
atataaaaaa taacagaaat cttttaaaaa gtgatgtaaa aatgaagaag ctgaacaaac 300  
aaactagaat acaaagatat ttatatcaaa cacatatgta agcacaattt taaaagtcac 360  
agaaaagaga atctcgggag ctgcaagata aaagtgatgt gttggctggg cgcggtagct 420  
caagcttgna atcccggcac tttgggaanc tgaagtgggt gaatccctga aggcaaggag 480  
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gggggggggc tnatnc 556

<210> 7987  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 7987  
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nnnnnnnnnn nnnnnn 555

<210> 7988  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 7988  
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tagtgagaat cttcatcaaa tggagtaaca tgacccaaat ctctagaggt ttcataattt 180  
tgctcttgct tctaaaaaca taatcatctc ttatgggggtg ttatgtgctt tgtatcctga 240  
aattttccac ttgctgcttc ttgggtgtgag gcgagaaatg ccaccacgtg gcactgcagg 300  
aggagactgg tggaagccac agggctaggc cttcacttcc cagtgcact gttcccaatt 360  
ccctccagga taagctgaga ctctcagga tgtggttctg cagcagatga ggtgcgaaca 420

09629469.072800

aagcctgctc tgccctgggc acccaggatg gcactgagtt ctaaaaggca aanggtatgt 480  
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gcccggtna 549

<210> 7989

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7989

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cccagagtgt cgatataaac accctttttg aatgaatatt aaattcatcc tgctaagtgt 180  
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tcaggattgt acacaatcct tgagaaacca tatccttcct cagataaatg tcaagggact 420  
ttcctaagaa atagatacag tagagattta tttaggaaaa aacaatagct ttcaaattgng 480  
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<210> 7990

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7990

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cagtttcctc ttgtccagta agcattttatc caacagaagc taagataaca tctacagggtg 180  
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acctcaccaa taaatcatag ccacctctga atatacctgc cagatagagc gaatgggaat 300  
tcttgttctc aggtacttta tcggacctct cacatggctg catgcccaga aatgtgatga 360  
tattgttgac agcctcttca agggttttgg tagaactgag ggcaaagggtt tcctctttct 420  
caaaggatc tcccacctct tcccaagcag cagcaaagtt aggcttcagt actttctgaa 480  
tatggtcaga cccagcactt tgagactttc agccatactc atcatatacc catcctattg 540  
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<210> 7991

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7991

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acctgagcct	ccttgccagt	ctttccctgc	agagtcactg	caactggcagg	gagctggagt	300
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cgggtggccc	ttggggcaag	tcatcaggct	ttatgggcca	ggagggtggt	cagcttgatc	420
ttgccatcca	tggaggcggg	gaagcaggtc	ccacagtcca	tggcagtgct	tcaatcacng	480
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<210> 7992  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 7992	
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<210> 7993  
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 <212> DNA  
 <213> Homo sapiens

<400> 7993	
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<210> 7994  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<400> 7994	
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09629469.072800



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cactgcgtcc	ttcaggaagc	caggcctntg	ngcctcattc	ttcaggaagg	aaaaccangg	480
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<210> 7995

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7995

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<210> 7996

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7996

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<210> 7997

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7997

09629469.072300

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cattatcaaa	agcttagaaa	acttgtaaac	ctctgggcct	gtctctgggc	actaggagag	180
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<210> 7998

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7998

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caactctgtt	ctttcacaaa	attgtttggc	ttctctgggt	ctcttgagac	tccgtataaa	180
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agctgctttg	ggtggaaacc	aaacttcttg	gggttttncn	aatcnanggc	catgaaagcg	540
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<210> 7999

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7999

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cattgaagtt	ctgagagctt	aatccccgct	ttaggttaca	cagtagtagc	tggatttcct	180
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<210> 8000

<211> 567

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 8000

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tgagaacagt	gtttttgtgt	ctttttatca	catatccact	taatattagg	tgtaattattg	180
ctaagtcgga	ttcgcatatg	aggtgcagca	tcaagtcctt	tcctatatatt	tgtttttgtt	240
gcagcgtaat	atgaaaaccc	cgtttcacac	aggtgcattg	tagcaaaagg	aagaagtaca	300
cgcactgcac	gccttgcaat	gcttgggtat	tcctgaatta	ggctactcca	aaaatcattt	360
agtgaagtt	cactaaaatt	ttgcttcact	tgagaatcag	atggttaaat	caatcaggct	420
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acccaagcat	tattggcatt	tggtagagga	aagtatttta	accagagtac	gcgcaaaccc	540
cntaagnnc	tgacaatggn	attgnaa				567

<210> 8001

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8001

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ccaaatgttg	gcccattgta	aattatatca	aaagacccaa	catccaagaa	aggcaggaat	180
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acattcatga	ggctctgctg	attttcctct	ctaggccttg	gaggctgctt	gaaagagctg	360
ctgtgaacgt	gggctccctg	atctcagcaa	cagagataga	cagaaggaac	aaaatagggc	420
gctcatcgta	agggataggg	catggaaacc	agacctcgag	ctgtgggtcc	caggaatgaa	480
aaaaggcnga	cgcccctaag	atatnggcta	antatggnc	ttacttaaga	antttggggc	540
caacaagttt	tngtttaggg	cc				562

<210> 8002

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8002

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atcccagcac	tttgggaggc	cagtgcagga	ggactgcttg	aaccaggag	ttcaagacca	180
gcctgggcaa	catagcaaga	ctccattcta	caaaaaattt	aaaaaatcag	ccacacatgg	240
tggcaagcac	ctgtagtccc	agctgttcag	gaggctgagg	tgggagggtc	acttaagccc	300
cagaggtcaa	ggctgcaagt	gagccatgat	catgccattg	cactccagcc	tggggataga	360
acaagaacct	gtctcaaaaa	aaaaaaatta	caaaaaaaa	aaaaaaaaaa	gtatgctaca	420
taaatacaat	gggatattag	tgtaaagaag	aaataaggtn	tgaaacttnt	gaagatntnt	480
ggaggcccct	aaatgcntat	tagtaagtga	gaaaagccng	tgtgaaaggc	ccatactatn	540
tgaattccag	ttt					553

<210> 8003  
<211> 514  
<212> DNA  
<213> Homo sapiens

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ttcacaccac cgatggcgaa cctctgcatc ctgatcctgg aggtgggtatg tcctctggag 240  
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cagctgggtct ggaagaagct tttcaaacac ctcttccttc tccctgcgct tccgttttcg 360  
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gactccgccc cggngcgacg cttccttntg ancggtttn gtattccgaa cttttnaagc 480  
cagcntggga aaatgttttc aacaagaaca gntt 514

<210> 8004  
<211> 560  
<212> DNA  
<213> Homo sapiens

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gtccatgccc aaaaagatat actagggtac agaatcatct tcataaatac atataaaatt 180  
cttgtgtaga agcgaactgt ccaggttttc tgagacactt ctaagtgaat caaggcacia 240  
aatgtacata caccattgtg aatacacaca ttctagactt tgtgcctctg acatagccca 300  
aggatttagc ttcatgactc ttataaaaact aaatgtactg aatgagattc tgcttcttgg 360  
gtgaaaaacc acaggaacta taaacatcat gtagataatt actccaaaat atggagaata 420  
caaatacgac cttttatttt aaaaagcaac acaaaagaat ggtgtaaatn ccagtgttaa 480  
atgcctccgt tttggataat ttaantaaga accgatncag gttggttcca gaactatgca 540  
tactagctct actgaggaaa 560

<210> 8005  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 8005  
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ttaccaccac agcagaatca acagtgactc gctaattaac agaaccgttt gctagaaagc 180  
actaatctag ttatataaat actgaaatag gtcacatgca aaacactata aacgtttttgt 240  
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gacgtanact gttgatgtaa ttttcaagtt ttcctgtatg gggaaagtig ccctgactgt 360  
ggcccttttc aaggtggagc ctccaacacc acgttggcag attcagactc cgtgaacagt 420  
ctaaatgagc aagtcagctg aatgcccttt caaatggaag ggaaatgaga tggaaacnac 480  
naaaaaagga ctggcagcgg acagntttca acccgagntt tcgntgaatg gnggatccan 540

a 541

<210> 8006  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 8006  
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atgcttcagt tatactgcag cctggccaac cactgttccc tgtagaagtt gaagttcctc 180  
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tttcctaaaa agctggacag aggtatgtga cattcctttg cttacaagc aaaacaaaat 360  
caatgagtct ggtgaactga cgccatgaca gcaatgtgga gaagactggg aagtctacac 420  
tggaatggt gctgtggacg ctctgggcac agaagcccaa ttggaacct cttcttaaaa 480  
acctgggaag ggtggtgga ggccaancca ccaaaggcgg ggcttttccc anctgcttng 540  
ggacaatctc tgggtctcct gggccagg 568

<210> 8007  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8007  
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aaaccataat ggtgccacag ggatggagca gggaaggga tctctaactg gtcctctagt 180  
ctatcttcgc taaacagaac ccacgttaca catgataact agagagcaca ctgtgttgaa 240  
acgaggatgc tgaccccaaa tggcacttgg cagcatgcag tttaaagcaa aagagacatc 300  
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ggattggagg actcttanct gatacagatt tcagtcatt tcattaaan gcttggatgt 480  
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acagatgaac ncaangatc aa 562

<210> 8008  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 8008  
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tggaactggtt acggtgctca gcatttgcct tatttgaaca cagctgaaca ctgagcagtg 180  
tgtgagtggc agaagtttgg ctgttgggat tggccaggac tcagctatag ttacagggtc 240  
atactccaaa gttaggttat cagtctttct acctattaag ttaggttgca gttcgtccac 300  
agggactcaa atctagaagt acagagtcct tcccaggcca tatttagttc actgtaacag 360

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tggcctttgg	gggttgcan	cctgnttctc	tacagnttgg	gcccccttna	gncttttcat	540
cggagggtta	aaaccn					556

<210> 8009  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 8009						
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catacaacag	gtatcatttg	ctaggaagca	tcgggtccat	cgatgagAAC	ccaacagcag	180
gtctgagagg	tgccggttgc	ccagagcctc	tcaaaactca	ggttctgacc	cagcaagtct	240
gaggtgagac	ctgagattcc	ccccatgttg	tggtccacag	gccacacttt	agtagcaaga	300
tggtggctga	cattgtacat	tttacaagg	aaacgccagt	gccagttagt	taattcaggg	360
gatcaagtgg	aagtcaactg	ggaaagtgtc	cacaatgata	cttcaacaaa	aaaagtaagg	420
aaaaggaaag	gtggaagatg	agtatgttaa	cttcctcatt	tttcatagca	aggagtacac	480
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<210> 8010  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 8010						
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ctgacagggt	aaataccaac	tcttgtgcaa	gggtctttta	tatcctcaac	ccctctgatt	120
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aatttacacc	ctctgattca	atccatctca	gtaaatgtca	atgatgcctt	cctatctact	300
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angctctctn	ctgactacat	gtacacccta	tatttgata	ctcattccca	ctggagtctg	480
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<210> 8011  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 8011						
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aaagtagggg	ccacagagct	agtgccgggc	caagtgaag	cagggagaga	aagccagagg	120
caggaaacaa	gacaaatgca	gaagtgtgag	gaatgagacc	ctgatggctt	cctggttccc	180

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atctgctgca	gggccctgct	ttctgtgatc	aggtccctgg	aataaatctt	ccttaagcta	240
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ttgctatgta	acacttttcc	ccgagccctaa	atttccccac	caggaaaact	ggtgacaagg	360
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atgggtgaga	tgcttacaag	acagtagcaa	tcatcactgt	tccagaaaag	gaacctggga	480
tctgganagg	aaggggcttn	acaangncat	gccgatntta	agggacgccc	ccnttttttt	540
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<210> 8012

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8012

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aaaacacatt	ttggattttg	gaaaacacag	taaacacata	ccaaaaacac	agccacaaat	180
accaaaaaca	aaaaccagct	caagtatagg	attgaactgg	ctggaaaaca	cttatttgtt	240
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ggggaaaaca	ggtcctctct	cagtcacata	tgcataagga	aatctcaaaa	cccaaaggcc	360
atcaggtgga	agggtgattt	cttggttttt	tgggtagaat	accggacatg	gtggtgggcc	420
tggctgaacc	tgaggcatta	gtattatctg	caaaggagca	tcaggaaccc	aacaaaaagc	480
ctcataagtt	gagcataatg	anggttcagc	cctttanctt	tgagaggtgc	ngaatattta	540
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<210> 8013

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8013

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 8014

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8014

09629469.072300

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ttttaatcca	ataaatgtcc	tacctactgg	atcttaataa	tgatgttttc	aatatgccat	300
ttaaaataaa	ctatccttga	aaataaagtt	ttaaatcatt	caatataatc	tatgaaatag	360
catctagtta	actagattac	cttaaatata	ccaaatatta	taatcagcaa	aataaaaacc	420
agtaaatcaa	tttgtatctg	aaagcctgag	gtctggatct	actgggattt	taattttttt	480
tccctaagat	taacaatnta	aacaaatctt	ttnggtactc	acatattttg	acagctcagg	540
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<210> 8015

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8015

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tgctactgaa	ttgactttctt	aatagaatca	tatggtaagt	gttataatga	ctaatacaacc	180
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cctatcaa	tcccttttag	aaaaacactg	caagtttagt	cttaccaaga	ttgcaagtaa	300
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gccatatcac	aaaagtccta	tcatgggtaa	tgaaaagtct	tattttta	atatttttgg	420
tccttttctt	tgacatggng	gcccagaata	agaagggctt	attttttaan	gccaagaaca	480
gtttcacaaa	atcgaattaa	attttattcta	ccaaaacctt	gaactggnta	gnctatcagc	540
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<210> 8016

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8016

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at	at	at	at	at	at	240
at	at	at	at	at	at	300
at	at	at	at	at	at	360
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at	at	at	at	at	at	480
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<210> 8017

<211> 587

<212> DNA

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<213> Homo sapiens

<400> 8017

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gctacaaaac	atcagaagat	tttttttaat	gtatcttctc	tatggtaatt	aaaaaaaaag	180
ttgtgccctt	ctagtcttta	attggcagaa	atatgtccca	aaaaagaaac	tattgcattt	240
aagccacatc	accaaaaaac	aaaaaagaaa	aaaaaaaaaa	aaagcaaac	aaaaaaacaa	300
aaccaacaga	gcataatacc	cttttactga	tgtgtcttac	agattgacat	gaccaaagtc	360
ataggttttc	atttaatttc	caattccccc	ttccacaaca	tgaccaact	gaatatatgc	420
tctgggagcc	ataaaatgta	ccaaacatct	acctnttcaa	aagaatgcat	taaaatattt	480
aaagaatttt	ttgntaaan	ggggaaaaaa	ttanccaga	aactggttcc	ttccttactt	540
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<210> 8018

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8018

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aacgtgctgc	ttacatgaag	ggagatgata	ctgagctaag	aagtcctggt	atagagaagc	180
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atcatgttta	aatataagga	caaaaaataa	catttcttat	ttaaaaaaaa	cccacaaatt	360
tccccaacta	tagcttatct	gttagcactt	ctttatcagt	ctgactattc	tttaaaggcc	420
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ttacttanga	ngtatctata	tattttttaga	ncaatcaatg	gttttttaaaa	agnngnanaaa	540
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<210> 8019

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8019

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caagcaggaa	ccattgttga	agcccgtctc	aaggagctgg	catgccctat	gccggctatc	180
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aagactgcaa	aatgggttct	ggctggagtg	gctctgcttc	tagaagcgta	aggtaacact	360
ggcattcctc	tagcctctgc	tggagtgcag	tgaggatttt	ctagcatgtt	gctgcactgt	420
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<210> 8020  
<211> 582  
<212> DNA  
<213> Homo sapiens

<400> 8020  
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tttatgtatt ttagggaggc atgagacatc aatcaaatac atttgagaaa tacattgggt 180  
tggtcagaa aggcgggaca actcaaaggc cggagcaggg gagggaagct tccaggctac 240  
aagtgaattt aaacattttc tggttgacaa ttggttgagt ttgtctgaag acctgggatt 300  
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<210> 8023

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8023

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<210> 8024

<211> 583

<212> DNA

<213> Homo sapiens

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<210> 8025

<211> 508

<212> DNA

<213> Homo sapiens

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<210> 8026

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8026

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<210> 8027

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8027

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<210> 8028

<211> 570

<212> DNA

<213> Homo sapiens

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<210> 8029

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8029

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<210> 8030

<211> 465

<212> DNA

<213> Homo sapiens

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<210> 8031

<211> 575

<212> DNA

<213> Homo sapiens

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<210> 8032

<211> 566

<212> DNA

<213> Homo sapiens

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<210> 8033

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8033

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<210> 8034

<211> 538

<212> DNA

<213> Homo sapiens

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<210> 8035

<211> 577

<212> DNA

<213> Homo sapiens

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<210> 8036

<211> 555

<212> DNA

<213> Homo sapiens

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<210> 8037

<211> 567

<212> DNA

<213> Homo sapiens

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<210> 8038

<211> 581

<212> DNA

<213> Homo sapiens

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<210> 8039

<211> 577

<212> DNA

<213> Homo sapiens

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<210> 8040

<211> 543

09629469.072800



<212> DNA

<213> Homo sapiens

<400> 8040

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<210> 8041

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8041

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gatcatatat gaattttttc taaatgttca agctaattgc tttcattagt catcctgaac  180
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gagcttatag aaataacttt ggtaagtggc ctctcttaaa aaggctgctg aaagctctaa  360
aatataagga taaaacatac ggtttcagac tgtacacttt gctgctacaa actacatctt  420
gatgggatta agaggctaca ttgattcttg ggtttattgc accaccatcc ctctctgacc  480
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<210> 8042

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8042

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catgtcggca catatatata gctcttctc tcctttcctg ggagcaaacc cttagcgttt  180
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ccctgagact gtgcaggatc cgtcgtgctt tccagccgg tcaacaaagt ggaaaggga  420
catcagctgg tctctgncct gtggtgatcg ggaagtaaag ctggnaatca ttaaataaat  480
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<212> DNA  
<213> Homo sapiens

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ttttcaaaag cagaaactca cattcataaa actttataca tcatttgaac taaaatacat 180  
ttatactact aaaatcaaac atgcatcacc ttcaaacatt cttatatcat gatttttata 240  
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tggttttcat ccattaccgt agataagttt ctgattgtct tattcatttg gttttcaaatt 420  
tgtaaaactca tgttttctga aatctttaag ttttcttgna actgactaag ggcccttttta 480  
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atcttcatcc ggtttttctt ctaagaacc 569

<210> 8044  
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<212> DNA  
<213> Homo sapiens

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gtaacctaat ttttagtgac aatagattca tgtactatgc aatagaacca attgaatgtc 240  
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attcaaattg aaatttctta tatttgaatt ttctcttctc caaatgcttg tatcagtaag 360  
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<211> 574  
<212> DNA  
<213> Homo sapiens

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ggtaacatca agttttggaa gaatggactt tttctgtaat tcatgattta gtttgagttt 240  
ataaaggttt taattgcaat ttcagttcct acaagctacc aagcctgaaa ttagagaact 300  
gacagctgag aaaggcaatc acctgatcga gtctcctaatt tgtacagctg aagaatccaa 360  
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09629469.072300



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tgtatgtata	tattcatttt	atatatagtc	aatgtattta	ttaggcattc	ccccacaaaa	420
gtaatttata	tttaattgcc	atttttaata	aacacttatg	ttcacagatc	atccatctgg	480
cntatatgaa	antaggcaat	atcaaatgtc	ctgggtatggg	ctccgcttct	tcggaancat	540
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<210> 8049

<211> 604

<212> DNA

<213> Homo sapiens

<400> 8049

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gcaattttat	ctgtataaaa	ataagataca	tttttacaga	attcacgctc	cagttcttat	180
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tgtcctcagt	gttctagaga	cctagagggt	ttcaagaaat	caaatcctaa	tcagtttgcg	360
tttaatgttt	ttgattgagt	ccatacatca	cactgtagat	aggcaaaaacc	aagaactgat	420
gcaggctcaa	aggaagagaa	agtcagcgcc	tgtgcctgcc	atggtcctga	gcgactgncc	480
catggtgctt	gcttttatng	ggacctcttc	aaaggaccga	agaacggttc	acgccctggg	540
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<210> 8050

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8050

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agtcaccctt	tttacttgga	atcagaccct	gtgngttcca	caagcagccc	cgttccttgc	540
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<210> 8051

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8051

09629469.072800

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taagacttaa	aactgggtggc	tacaggggtca	tggtttngga	ttaattcatc	cattgatttt	540
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<210> 8052

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8052

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<210> 8053

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8053

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gtaccgatga	gtgtgcacac	tggagaatcc	tttctcttca	atccactng	caagtaagta	480
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<210> 8054

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8054

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cttcttccac	aatcacaaatg	agagaacaga	ttgctacatg	tttgctggta	aatgcattca	180
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ttgaacttgt	ctaaacatag	gtttatataa	actaatccat	tatcattata	gttataatca	360
aggaaatgat	ttcacattga	cggtttttta	ggtaggata	agcgaaagca	ctgcagcagt	420
ttctgaggga	atgtcttctc	tgnggttccc	catacttagt	acaatgcctg	gaatgtanca	480
gggactaaat	tcngtggaca	aatgggcaaa	cctttaattc	cagggatctg	gtcaaattgg	540
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<210> 8055

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8055

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ggcatccttc	ataaaccttc	tccttttctt	ctttcctctt	aaggccaaag	tcaaattcct	480
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<211> 557

<212> DNA

<213> Homo sapiens

<400> 8056

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cccaagcaat	tatgacagta	atatcaaaga	tcaactaatca	cagatcacta	taactgattt	360
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tgtagaaag	atgggtgctga	cagacttgct	ccatgcaggg	ctgcacaaac	ctcactttgt	480
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<211> 555  
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aaaatctaac acaaatagga gcgtttacta tttttgtctg ctttaagatt ttaacttgat 180  
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<211> 575  
<212> DNA  
<213> Homo sapiens

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<211> 550  
<212> DNA  
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09629469.072800

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550

<210> 8060

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8060

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<210> 8061

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8061

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<210> 8062

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8062

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acagaattgc	cgggattttc	catacttgac	agtagcttag	aactgctgca	ggaaggctcgt	360



gtactatatt	cggttggttct	agcaatggac	aacacgccga	gtctttgaaa	ttctgtgttt	420
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taacatgtcg	acatgtgaga	ataggtatct	gcatggtctt	tcttgggcaa	aancccaaaa	540
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 <212> DNA  
 <213> Homo sapiens

<400> 8063						
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aaaaatcgag	aaagagaaaa	caaataaaaa	caacaacaat	aaaccaaact	cctacttcca	180
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 <212> DNA  
 <213> Homo sapiens

<400> 8064						
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gagcacaccc	acggggaatg	gtgctcagtc	tagagaaagg	cccagggtct	gctgctggcc	240
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acaatgggca	cccggagctt	ctttcaggct	tgtcaggata	tgtgcaaatg	cccacagggc	360
gggcagctgg	gaggccctcc	gtgagagccc	ttagatgatg	ttggctgagg	ccaggcgcgg	420
tggctcacgc	ctgtaatccc	agcatttttg	gaagccgang	cggccggcaa	ggtcangcat	480
tcaagaacaa	gctgggccaa	cacagcgaaa	gcctgtcttc	tactaaaaat	ncaaattaac	540
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<210> 8065  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<400> 8065						
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atccatagtg	cagcaagcaa	gcagggtggc	tatcaataag	tgatacatat	tactgagtcc	180
acgaaatact	tgagaatatt	ctccagctct	cacctggagt	tctgggacag	aaagcacaga	240

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cactgactga	ccatcaacac	tggaatgaatc	ttctggcttc	cctggggggc	tactaagcct	420
cacttcagga	tccattgagg	acaaagcatt	ctttgatgat	cctttgttca	catctgtccc	480
tgangttcct	tcatcanggg	gctctttgag	aagatgaaag	gggtttaagt	tggctgactc	540
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<210> 8066

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8066

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cttcaaggac	attattacgg	atacacaatg	ccctctgaaa	gcttttgcaa	atgacagaaa	180
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acacaaactc	cttacaaaaa	acaagcttat	ctagatggtc	ccacgagctg	gtcatcttca	300
gtttacaata	tgctgtggct	gctggcccat	gtcactgggc	tttcctataa	aagctttcct	360
ttcttggaac	tgctgtcctc	ctgctccagt	gtcctcttgt	cccacctaga	gttcctcctg	420
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tcttctgnga	cagancttcc	tnttncgggc	atacatttgc	tctgacaccg	tggaancttc	540
gggactggca	nctggaaggt	tgcggccgcg	acggggagggt	tttggnntgt	taaaacaacc	600
cn						602

<210> 8067

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8067

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aacatacttt	tcaatatgat	acaaagcatg	catctcaaag	tcattacttt	aaaagagagc	180
aacacaggta	aaattcaatg	ataaacttca	cttcttggca	gtactatagc	tggaatgaga	240
tctgtggcat	gatcagccca	agatggatgc	attgagtctt	catagactca	ttcgacaaaa	300
acacccagaa	agaaaggctt	ttgctaagaa	cacttcaaaa	ggttttagaac	attgcaatgt	360
aacttgcacc	ctggcagcac	ctgtcaccag	actgtcagt	caaaactgaa	agaaaaacat	420
taaaaggaga	tcgtgaaatg	atacagtggg	agcggggcag	tttatgctaa	aaccaatcac	480
accagaattc	tagatgaaga	aggaccatga	atangcttng	cccaatttcg	gtgacacttg	540
acacagtnaa	agatccaaat	tttcaagttg	gaagggggta	nanaaggggg	ccntcaaggg	600
gaaaaa						606

<210> 8068

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8068

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cctgattgtg	atacaacaga	aagtacagaa	cagtaaactg	ctttttaaat	actggaattt	180
tatggagaat	acattcacat	aaagaaagga	ggtgaatttt	gttttggaac	aggggtaaga	240
caatggagac	attaatacat	agagtgtctt	gttgatttta	ctgccacata	cttgagggga	300
aattctcaaa	atcaaggata	tgaacacctg	ctgctgcctg	tatgccacct	agtgtgcgaa	360
acgaccgagc	taccagtctt	agaacttatg	agaactactc	taaagagtgt	ggccatctat	420
cagcacgagg	taaaccactt	agacctcagc	acttcagggg	tggcccgtta	gagaaaagan	480
gcctgaaaag	cttcagacaa	ttccgtcaag	ccaaggtata	atgccaaact	tgcccttntga	540
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<210> 8069

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8069

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cagggagtga	tttttttctt	tcagcaacgt	agtcccaaaa	gtacagacag	cttctctctt	240
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ttggcctaag	tcccaccagc	cccgaagttt	ccatgacaac	aaaacaagga	tcaacgtgcc	360
tctgacactc	ccttcagccc	caaattgttc	tcttactccc	atthttcttcc	tacctcccaa	420
gtatcactgg	gatacaagca	gaacagggct	gggtgtgctga	actcaccctt	ggggaggact	480
cattatagca	tcctgctttt	ctccattatc	ggncaactgg	ctaaggccca	attaataaca	540
gctgnttggc	ttcctggaac	cgctggccnt	ttggacatgg	tagcctt		587

<210> 8070

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8070

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tatcagtcac	atatatactg	gcacttagtc	tggtacatgc	aaatttcaag	gcaattcctc	180
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taaaaattgc	aaaagatgat	aaacatctat	tattttgtaa	aagttacaag	ctccatttcc	420
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caggatgatt	caaccggaag	atttcnaaan	gncctcangn	gattccaaag	gcaacccccgt	540
gnt						543

<210> 8071

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8071

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ccgtgcaggg	aaactgccct	ttataaaacc	ataagatctc	atgagattta	ttcactatca	180
tgagaacagc	atgggaaaaat	cccaccccca	tgattcagtt	acctccccc	gggtccctcc	240
cacatgtggg	gatcatggga	gctgcaattc	aagatgagat	ttggtgggga	cacagccaaa	300
ccatatcatt	ttgcccctgg	tccctcccaa	atctcatgtc	ctcacatttc	aaaaccaatc	360
atgcctcccc	aacagtcctc	caaagtctta	tttcagcatt	aactcaaaag	tccacagtcc	420
aaagtttcat	ctgagacaag	caagtctctt	ctgnttatga	gcctgtaaaa	taaaaagcag	480
ttagttattt	cctaggtcca	tggaggccca	gggtattggg	naaaaacgcc	cgttgcaatg	540
ggaaaaattg	gccaaaccgg	gtcncggnc	t			571

<210> 8072

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8072

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gcattaacac	agacaaatac	acaagacttc	aaacatgctt	taaaatgaca	ttcagcaaag	120
tacttaaaat	ttaataaata	gcaaatacaca	cacagataca	tttttcataa	tcattaaact	180
actaaaacag	acagttaaag	aataaataaa	ccgcaactga	cagtaaaaaa	aaatatgttg	240
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tttgagagtg	tagcatgatc	ccccccagga	ataaaatata	ttgaaaaaat	cactcttaca	360
acaatgtatt	ttttaaatc	aacaaataaa	tatgaaacca	gcaaagcaat	ttcaagttgt	420
aataaaaatg	tcccccgccc	ccagccaaaa	gctatggaaa	tatatagttg	ctggggtagc	480
aaataatagt	atttaaagng	atantgcttg	ggccctaagc	ttatttgaga	acctgngatn	540
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<210> 8073

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8073

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aatttagtaa	atgcagattt	ctggggggga	aggggggaat	cttcttttaa	aatgcccata	420
tttagttag	gtgaaatata	ctgcttataa	actattgata	ttanccttga	anaaccntta	480
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ggg						543

<210> 8074  
<211> 564  
<212> DNA  
<213> Homo sapiens

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actttgtatc caacaataat aaactggcaa attgcaagtt acgTTTTgta ggagaagcaa 480  
aaaagactgg ctgcgaccaa agaaagaaga aaactgggtt atcatgcttt gnaccaacag 540  
gncntntgn angggccatt aang 564

<210> 8075  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 8075  
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acgacacttt ttccctggga aaggcagctc taatcccagg aatggttctc agcagaggct 180  
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aggTggatgg gccgaactcc cagccaaccc tgaaggaagc gctgcttTca agggTtctta 480  
aaaagaagaa aatcttcaac caaaggggaa gggacnaggt nnaaggccaa gaattgnccc 540  
atTTTtcca cattggaaca tncncggcta tttNaatggg ctttagg 587

<210> 8076  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 8076  
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aagaaatgta attTgggtta tttagcttac tcataaagta aggttaactg acaagacttg 360  
cactgaagtg cataaaaaat attTggtacaa aaaccaatga accataagtg aaagtagttt 420

ccatacagca	ggttttcattt	tggttcctac	actccacatt	tagtgtatatt	gcgatcagac	480
cccatgcata	tgaatggatg	actgcaatct	tcttttttag	aaacttaaaa	ccaatgactt	540
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<210> 8077

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8077

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<210> 8078

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8078

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<210> 8079

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8079

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ggcctaa						547

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 <211> 539  
 <212> DNA  
 <213> Homo sapiens

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<210> 8084  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 8084	
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	556

<210> 8085  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 8085	
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09629469.072800



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caagccaact	taaatgaagg	gcttcaccac	atgagaacct	tcaatagcaa	cgtttacatc	480
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<210> 8086

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8086

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<210> 8087

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8087

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caagatttgg	tggaaggaga	ccatgacaga	tgacaaacgg	aacagtttct	caaaaacaga	180
ggtatgaagt	aattacacag	gaaagaaaac	aattttccaaa	ggagtgagac	aagtcgtgat	240
tcttcattgg	tacctgacct	ctatacccaa	acagccttga	accagccctt	ccagagactg	300
cccctagtgg	cccactgggc	agtgcaggct	gtgaagaaga	cctgaaggca	gatgggggtg	360
gggtgcttat	tttgctacag	tggagaaggg	gcttgaatgg	ggagggcaga	cctggctaac	420
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<210> 8088

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8088

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ttaggagcca	cttacaagat	gtatcaagca	aacagagcaa	gatacagaac	agtgtgtggt	180
tggtttgcta	ccatttgitt	taaaagaggg	gaaagaatat	atatgtgcta	cagacatgtt	240
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tctgcacaac	cccgggaaag	gcaagtcgac	gctgatgtca	ttgctggctg	aggagagagg	360
tgggtggctgt	gggacagaat	gggaaggggac	cgtatcccta	cataatactt	cataaccttt	420
agctttgaac	catgtgccat	tattacctat	tggaaaaata	agntaaaaac	taaaaatcaa	480
atnccccaaa	agnctgnagc	aattaaccct	taaaaacctc	ctttagggtta	tcccagncnc	540
agtntactgg	gactggcc					558

<210> 8089

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8089

ggtttggttt	tcggtttatt	caagattaat	gcatttagac	cattcctttt	tcacacttac	60
ccttaagagt	cccaatactt	tgttaaggag	gctcatgttt	ctgcagtcct	aattaaccat	120
caccagcact	cccacctgag	agttagccac	tcggtagatg	gcaggggaca	aggaaaccag	180
tgccccgctg	cttccggagg	gctgctgcag	ggctggggct	tgtggctctg	tgttttgtgg	240
aggacgggga	ctcaagtcca	gccttgctct	gcttaccaag	ttggacaccc	atggggctgt	300
gcccacccaa	gtgggtgcctt	ttctgactgg	aaccactgta	agggctcact	atgcccttgc	360
tgggggtctt	tccagcaaat	aagactcttt	tctgctgggt	tcatgtgtgt	ggccttgctg	420
gaagacaagg	gtnggggaatt	ccttcctttg	aacccctttt	ccaaagaaac	ccatggactt	480
ttgcaaggga	cttactgaat	gtganccant	cattgaacnt	tnanctngaa	aagaacctgt	540
tcaacttncc	gggcatttt					559

<210> 8090

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8090

ataaaggcta	accatatcca	tttgtcaata	ttttcggctt	taaggaaaat	agtttaaaaa	60
acataaaaag	gtaaatacac	tcaagagtaa	ctgctattaa	acagttctga	acaggcagaa	120
aatgtagact	ttcctttaac	agaaaatgtt	aaatctgtaa	tagcagcata	atttatatat	180
agaaaaaagc	tggttttgaa	aaccagatt	tatacccaaa	acattttttt	tctgtacaac	240
tgcgtttaca	ctgggaaata	agttttcttca	cattatgttc	attcccatca	ggtacagggtg	300
tgagcttgag	tttgatcagc	cagccctgag	cgcaagctca	gcgctcagca	caatcttcaa	360
tccaacacca	tggcagaaag	cgcatttaga	tctttcatgt	atgggtgggc	caccaagatc	420
tggncatatt	tcagctttgc	tctgagtcn	ggnagatctt	tagaaaggct	ttccttaact	480
tcgttggttc	tgcaaaaaac	tntgactggc	atgggcaggt	tctggttgaa	actggggaag	540
gcttggaac	antggggaaa	tnggcttttt	aaggact			577

<210> 8091

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8091

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tgtgatgtt	tgatacatgt	atacattg	taataaccga	accagggtaa	ttagcatatc	180
catcacctca	aatatgtgtc	gtttctttgt	gttgagaact	ttcaaaatcc	tctcttctag	240
ctatttcaaa	atatatgcaa	taggttatig	ttaactctag	tcaccctact	atgcaataaa	300
acattagcac	ttatttaatg	tgaagttit	aatacaaaaa	ttattttaag	aaaataagca	360
caggctgggc	gccgtggctc	acgcctgtaa	tccagcact	ttgggaaggc	naggcgggtg	420
gatcacctga	gggcaaaagg	tctagacnac	ctaaccacc	attggggaaa	ccccgnctnt	480
ctggaaatcc	aaattanccn	cgggggtgtg	gtgggcacct	gtaatccact	acttgggggag	540
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<210> 8092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8092

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 8093

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8093

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tgttcaacat	ggatcacgag	tgacagagag	gagagatcag	ctgcatttag	tgaacgccca	180
agttgggaaa	atggcacagc	agtagcgcac	aggcacacag	ctatctgggg	aggctgtggg	240
gactgtcacg	tggactctac	acaccgagaa	ctgcttcaag	gtcgcctgtg	tctgagtgcg	300
ggtaaagtga	atatcaacac	ccaggctatc	agggtgagac	aactgaattc	catcatgtcc	360
atccacttta	caaaggggtg	ggaggcacca	tggagaaact	gaccagaaat	gctctgccct	420
gtcacagaag	gagacaganc	cnaggcagac	acgngtgacc	tctgggangc	caagacactg	480
gcagtgatng	gtcccattgg	gatgcctggn	acttccaaca	canaacaggt	tccccaagc	540
aggttgggga	aggccctttc	ttnggtttgg	gaacttttta	natnaacca		589

009270 69462960

<210> 8094  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 8094  
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aggggaggca gggcagtttc acattttttg aaagggtggtg gacgacaact acacttgtcc 180  
ttaaagtaaa ataaaagcag gagagacca gcagagacca acctgatttg cagttagcat 240  
cagaatctaa atctagtatc acaactttaa gaaactaaaa gaaaactatt agaaaaatag 300  
aacatnaaac aagcaaaaaa atatacaaat gtacataata aaaaacacac aactcttaat 360  
aatggctcca tgttcagtag aagaaaatat ttactggaga aaccacagct attcagggtt 420  
gataataaac ccaaccctta ttggnatcat tacccttaag tgctccttaa ctcatggaac 480  
tgaangnca acttaagcng gaacttatca tcttaataata tatatacttc tcaaatggga 540  
aaataagtcc caacttaata ggctngcttn aa 572

<210> 8095  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8095  
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gtgtcctcac atgggtggaga gagagatcat ctctctggtg tctctcctta taaagcacta 180  
atcccattca tcagggctcc accctcataa cctaatacacc tctccaagac cccaccccca 240  
ataccatccc tttgggggatt agggcttcaa cgtgaattgg gagcatatga acattcacc 300  
cttagctgac tccacccatg tcaactagat aggacacacg gtgagtagtg accacatctt 360  
acacgttttt agcacactgc tgatgtccga caggcctggg tctgggacca gtgtgtacca 420  
acaagcatgg tctgtggggt caactgtcac gctcctgagg aagacaatgg gccctgcttc 480  
tnttccancc tgtcgnggct ntactgagtt taatttccca tcaatactgg agngngncc 540  
ttgacaaatg g 551

<210> 8096  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8096  
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caacagcatc cacatggcgg caaggggacc agggcacaga gagggggagc gggctgggga 120  
gggacagttt tcaggggtccc agttgcttcc ctggcttgaa atcacccctg tccctagcaga 180  
ggacaggtta aggctgccag aggcagaggg tccctgaccc tggcccgagg acagactgcc 240  
caggcaggcc ctctgatacc atcttccaac catggcagcc tccaggaaaa gccagatcca 300  
tttaggagat aacaggaagg tggctgtgat tgacaggaaa ggcaacatgg ttcctcanca 360  
tcctgctgat cacacctctg ggaggggctt gctggattga aagaggacct aagaatcttn 420

09629459.02300

ctgggacnag	gacagaaatg	ggatctaagt	ctacttctna	ctnacattcc	cgcttgtgac	480
acccanaaaa	ctggaatngg	tcttgcttca	aattcccgga	agaanaaagg	gattgacaaa	540
ancctttggc	ttna					554

<210> 8097

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8097

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cctgaggcca	gagtgtgcct	ggggatatgg	gggacgtgga	gggcacccat	gtccagccca	180
cctcagtgtc	tctgcctcag	tgagaagggg	agggagttag	ccacaagggg	gcctgggtgc	240
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agccaggggc	tatgtgtgga	cttaggggtt	ggaaccatta	aagggtctct	cnacgggaag	360
tggcaggata	tgacctattt	ttgaaacatt	gtgcttgaga	acangcctta	aaggcagaag	420
cacagaacct	gctcgggcgc	ttcaataact	gaanccctt	agttgaaaaa	tatctttctt	480
ccanttctac	cangcccttt	nccttttcaa	tgctacagna	cacccaaaca	gtaggctcct	540
tgttgcccn	aaccacagct	tcacttatgg	gttt			574

<210> 8098

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8098

attcagtaca	gatgcaaagt	agtagctcag	aggctctggg	taatagcatt	cctgagattg	60
gtgacatcca	ttacctcact	agtccaactt	ctccagacta	acgcagactt	ttctcttccc	120
ttggcctttc	ctctcctcgc	cattgggcca	attccttcga	tttctcattt	cccttgaagt	180
tagggccatt	cacagtttca	tgggtcaaagc	cagttccagg	ttcaatagtc	tgtgatttat	240
ccaggctctg	aggtatgcac	cgcttctgtt	ttgctcgttc	ctccaagagc	tagtttggcc	300
agaaagggga	tgctttatac	catagaacac	atccaccttc	tagaacctgc	tctagaaggc	360
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cggctctcaa	actctgggtt	caaaaaaac	tgagcatggt	gagagaagac	agtgtcaaac	480
cgaggcccct	ggaggacctt	tggaaacctg	atagtctgnc	ataccngaac	ntggatttct	540
ctaaaggtca	aactggnntt	actgnggaan	aa			572

<210> 8099

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8099

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gaaacaaggt	gtctggacgg	accacaccca	taagcggctc	tccgcaaacc	caggcagacg	180
cccgtctcct	ccgggtctca	gggtggccac	atcctcccc	accagggtc	tgacagcagg	240

cacagagcag	cagcacgggc	agggtggagc	gggagcagcg	tgtggggggcc	cccgccaccc	300
ccagagctag	tctcagacca	ggaaggggagc	tgggcaccag	agaagcgaca	tcacgtcggc	360
acctgtaact	cccgggatcc	gtaattgggc	cccgttccc	ccancctcgc	ccccggccca	420
ctgtgcgttc	ggcagctcag	gttaaaactg	anggggaagg	atacattana	ccgcagcccc	480
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<210> 8100

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8100

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ttaaggtgct	tcttaggtat	ttcccaaagc	tctttgctct	tttatactgc	agcattttca	180
ggaggagtca	ttagatactg	tcaaggtcca	agaaataact	aaaaacaaaa	aataacctga	240
gactcttttc	tgcaccgcca	ccagctgccc	agtacactag	gtcacctttt	acagcagtga	300
gcacagcaat	ccatgccaca	aaaatcctca	caaaacaaga	aggaaaggta	caaaaagaat	360
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catcacaaga	aacaccagat	attccttgct	ctgcccttgg	gcaaccaaga	aacttaaagc	480
ctgntttata	tccananaat	taaagagaga	cctgatanaa	gttacaatgc	tcaaagcttt	540
ggaaccagg	naaattatac	ccttggttaag	ggaaanccca	attttaaagn	tacaa	595

<210> 8101

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8101

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atcccagag	gtgtttacac	aattcccaat	gaccagtgc	gcttggaagg	gactgaggct	120
cgcaagtggg	tggcacagtc	ggctcttcag	tggctccaaa	gtgagcccct	cacaacagga	180
gacacttcag	agaggtctgt	ccccagccac	gcactcatga	ttgcttttta	gcagaagtca	240
tggtcgttga	ggccctgggt	ttggcaaaaag	cacagctgcc	agcagagcac	agttctggta	300
ggtggggcca	cggctgacct	ggccccagag	ctacaggaac	aggcaggggc	cagcttggct	360
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aaacacttct	gtgagtaaca	gaacctggaa	ggaaaagggg	caagggtggg	gccttgggtg	480
caccgnacaa	gacgtgcccc	aagcttcttt	tcaatngact	ggcaccttcn	ggcaanaaaa	540
acccnaanc	cttggggctt	aaggtttggc	ctttccaatt	t		581

<210> 8102

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8102

agtgccttata	aatgaggtca	taaagaactt	taataattca	gagaagaagt	tcaaagtgt	60
tttaaaagt	gagaccctgc	tttacaatat	tttataattt	taaaaaaagg	cgttttaagg	120

tgataggtga	cttaataatt	ttccactttc	aaaatgggtt	tctagacact	gttggtcatg	180
aacccaaaaac	aaacaaacaa	acaaacaaca	acaaaaccca	aacacttttg	caagcaaagt	240
attattagta	catagcagct	tcataacagt	ttactttttt	aatataaaga	tttttcaatt	300
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atgatcttaa	tgaagccaga	attctgtgaa	aatgtgcacc	acactgcata	tatagtagct	420
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tnacacattg	ncttctatgt	ccacatnact	tttctgaana	caggctctgc	cttaaancca	540
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<210> 8103

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8103

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atgcctacag	gtgtgtgtgt	cgctcctcac	taatggatcc	gtagtcatat	agctgtgaga	120
ggcactcctg	ggttgaaaat	gaaggcaatt	atcacattac	tgtcagtcct	gactgagtca	180
cctctagagt	ttatgctttc	agccttaatt	gaaatgaaga	caattatata	aaattctcac	240
ataattgatc	acaaatgtga	tcacagccac	tcttgactaa	gattgggtgcc	ggccaatctg	300
ctgtgaggga	atgaagagag	gagaggaact	gcgatgtcag	tccctgattc	tactgcaagt	360
ttccaagcac	atgaaatccc	attctagctt	tggagacccc	aatgtgacaa	gaatctccct	420
gtgctttaa	tcattctctna	cccatgctaa	gctgtgatcc	cttaccaagn	ctatgaaacc	480
ttggaaaaan	gagtgaanaan	tncccccggg	gngtgtgng			519

<210> 8104

<211> 585

<212> DNA

<213> Homo sapiens

<400> 8104

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gagaatcgtg	tttaaaggaa	agggttaggtc	atccacagaa	cagctttcag	tcattacaaa	120
aaaaataact	tcttgctttt	atattaccat	cttcccccat	taggcctacc	tgcatactgn	180
gcttcatcaa	atctaagatc	acctcacaac	tataccatta	ttttaggcac	cactaaaaga	240
cagtgtattg	ctaacaaaac	tatgataaac	cattgataat	atatccagat	ttcagagatg	300
ttacagtgc	tcttagttga	tgaacaaaa	atatacaaaa	catgagacac	agtaaaaatg	360
ataagtacca	cctcattata	ccttttcaca	agcaaatagt	ggccaaagat	gtgaacggcc	420
agacacggt	gccgacatat	gcaatcccag	atctctggag	gctgaagcan	aaggatcctt	480
gagctcagga	gtttganacc	cgcttggggc	atattcaaga	ccnncngaaa	aatgtaaacc	540
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<210> 8105

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8105

09629469.072300

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attttaaaat	agctcaaaac	tatcttgc	tttaatat	taaaataaaa	tctataatat	180
caaaatcttg	agcatttaaa	aaactgtaaa	anccatgatt	caagtcaata	attctgngct	240
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caagtcatac	tggtaggtga	ggataaagct	taatggaaca	atcngggacc	annaaaggct	480
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<210> 8106

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8106

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gactttgact	tttccaattt	tttcaatgat	aatctttttt	cctgataata	tgttcacaa	180
caagtaatac	cagggactgc	tgagaagtgg	atgatgaagg	gtgataagat	atagactgtg	240
cccttctctt	tgcagctcct	gagaggggat	gggaagggat	tttgggaggg	tgagaaacag	300
ctttgtctgc	ccagagcagc	tctgaagggt	gcccagtgca	gaacaggatc	tctgaaggca	360
gagcgggaca	cccattcttg	ggatggaaa	agggaagacc	gttgaggcca	tttcccaagt	420
ggaggactan	gggtgggaaa	agtgaccttc	tgcttgagga	tccagtccac	ccttnaccca	480
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<210> 8107

<211> 516

<212> DNA

<213> Homo sapiens

<400> 8107

aatcctgaaa	agtagacagt	aaaacagctc	ctgggagaat	ttacaaccaa	ctgcatgagg	60
gtctgggaag	ctgaggggct	ggagcagggt	tgggagagt	aacaggagg	gattctcccc	120
tcagtcactg	tagcctcact	gtatgatcaa	gggaggtggg	gattatttag	tcaaaaagga	180
agaaggtagg	aagaacagga	ggtggaaggc	tggggaggtg	gggacaaaca	gaaagtaaaa	240
ggtcattgtt	gcctgtttga	atccagaaaa	aaatgcctgg	ccctatggag	gggaaggga	300
cccctcagag	gggaggcagt	gggctggagg	gaggcagccc	tgggatgacc	ccatccccag	360
caccacggga	tctggcgggg	gcagangang	ggccgaggca	agcgtggtg	gaagaaccgg	420
caggggcctt	cgggaacctc	tgggtcacac	tggctactgn	gtacttttgc	cccctttgtg	480
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<210> 8108

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8108

09629469-072300





<213> Homo sapiens

<400> 8111

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aaacaaacta	cttgatncaa	aaacattcag	atattagatg	tcaaaataaa	tcagcacatt	120
tgaaaatact	ataaattata	tttcaaacaa	atatatacnc	attatgttaa	ccttcaacag	180
gatccattat	cactacttan	aacactgata	tgtttatctc	ttaagtatgt	aaaaattaca	240
tagctgttaa	ctttgtatgg	caattcacct	ataacacatt	taagaaagca	ttacaaaatt	300
cattatatga	taattctaca	aaagttttct	cacatttacc	aaagcctact	aaagtccana	360
gggcacaaat	attggccaaa	tagttctttt	atcttagaca	taaagatgtt	tttgctgntt	420
tttagaacca	ttaagatggc	taagagaacc	aactttacga	gcttaactgg	tctcangcat	480
ctgaatgggg	gtgtggagaa	gtctcaaggt	tccaagaatc	gcagntcctt	ttttinggtga	540
aaaaataaaa	ccttggaattg	gangcattcc	cgccaaangn	g		581

<210> 8112

<211> 593

<212> DNA

<213> Homo sapiens

<400> 8112

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agcactacag	aatagagaac	ccaaattfff	atatacaaag	tgcttttaaaa	aaaaagacct	180
tgtgacatat	tcaaaccata	tttatttgaa	tactttccaa	taattaccat	gggatacatc	240
atttataaat	aatattttaat	ctcccttatt	ttttcaagcc	agaattttgtg	tttcaactaa	300
tcaagtgaac	agccattcca	ttatgtaata	ttaaaggcaa	gtcacatagc	atcaaaatga	360
aaccgggtggg	cttcttgtcg	ttttctctta	tcatctgctt	tcttttcctg	ccaatgtaaa	420
atgccaatga	ttgccaaagt	gaaaacacag	acaccgatga	gagctatagc	agtaagcaga	480
acaatattac	ttggngnaag	atcagtttgg	gccttcaact	ttganggaca	ttgtganggg	540
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<210> 8113

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8113

gatttttgcc	ttttgatgcc	tacagtaact	gagaatcaac	aaagtaacta	gtctgacatg	60
aaaaatgtgg	tgccatgat	ttaagtcttg	atttgagcac	atcttaattg	gtgcactatt	120
gcttttgata	atccagatat	aacaacaggc	aagcagtaat	aaatgaagag	acttactatg	180
tatcacacaa	gcaaggtttc	tgaattacaa	ataacttcaa	caatgacatc	aaaacctatg	240
aattaaatct	taactcacgc	ggttataaag	ttaaattctc	atgtgtctta	gtgagaatgc	300
tatcatcaaa	tacattctaa	attctttcat	tttttagtgt	acaaaggtta	tgggagaaag	360
gataaggtgc	tttttaataa	agctaccact	gactcacaca	catccataca	cgcatacagt	420
caaactatga	aaaacactaa	ttttaaaatg	aaataatgat	tatctagact	aaaaggagac	480
tttggaatag	aataattttc	catgactaat	ttggttacca	atatngatac	tcaatgnaca	540
tattgtcacg	aaatattcaa	gaataccont	atcncgtggc	nttaaaa		587

<210> 8114  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 8114  
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agtcataattc cccagcanca gcatgataaa ataattcaac tatgtanaaa tatanaactn 180  
taggactagc tggaaactcg gaaatcattt ancctaangt tctcattttg agagaaaact 240  
anactcaaag attaaagcgat ttgccaagc tcacatacct aatagtaata aagctagaaa 300  
tcaaaccaat ttttcctaaa actaaaattc tatcaatgat atttcaactg gctatcaact 360  
aaaagtctag gcttttctct aatgctccac nctattgtga catgaaagag tgataagaca 420  
ctncagtaaa tcgacttngg gaattcaggc ctggaggggg ctttggcaaa taactaagcc 480  
cgccctnttt tgtaaaaagg nggaaaagtt ctgaagggtt tccaaagctt gttaccaaaaa 540  
agtctggatt aaatcccaan ttgcca 566

<210> 8115  
<211> 589  
<212> DNA  
<213> Homo sapiens

<400> 8115  
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attccaaaag ggtttcttta cattacatga cattgtgaga tacacattag aagaatctga 120  
gactatgttc catttcagtt tctcttttgc aattaggtaa tttgttttga tctaaaaagt 180  
acaaatttat ctcatcttg ttaatgctgt ccatgaaatg taagtatcag ttccttctca 240  
gctagtgtt tatagttata ctggtgccag gtaagagac ctattttata gtgagtga 300  
tgaaagtcaa ctacaagaaa agcacattgt cattttcatt tacagaggca agtccctctt 360  
aacacaaaga aaagcaaagg accttatgtg attatgtaag gcagatcagc ccaggaattt 420  
cattcaaaga taatacttca tactccataa tcccatgtga gaaattaatg aatgactcca 480  
agtaaaaaga aaattaaaat tagcccttgg gccttgacaa ttttaattgcc agggcctttg 540  
ncaattctaa acaatggtct aaattancnc aattctcaga atgattacc 589

<210> 8116  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 8116  
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taagctaata taatatattaa acacatataa ctttaataaaa ttaccaattt ttcattgtta 180  
ataatttttc ataaattcaa aagctattca gaaatgaaat gtaatacatt ctgattacta 240  
tcaaaggtta gaattataga aacaaccata gcactactta ttttttaaaa tcgtttcaaa 300  
cattcagaag ccaaattgact gtccttaaaag acaaattaaa tgggtaaaag gtcttatnta 360  
acagaagaat acaaaatttt aagctttggt taataagata ataagtgtag tggaaaattt 420  
taaattaaca tctcccttat atgtaatat cctgagttgg tggctcaaat atcataaaga 480

acttagtttn tancctttatt ataacattgc attntatntt tgaaaaacaa aaaagnnttg 540  
gtnttt 546

<210> 8117  
<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 8117  
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tgcacaagaa aaaatacatt tgaatgaata aaaaataaaa tgacaggagg tgacagaatt 120  
tagtgtttat aaatgaggtc ataaagaact ttaataattc agagaagaag ttcaaagtgt 180  
atttaaaagt tgagaccctg ctttacaata ttttataatt ttaaaaaaag gcgttttaaag 240  
gtgatagggtg acttaataat ttccacttt caaaatgggt ttctagacac tgttgttcat 300  
gaaccaaaaa caaacaaca aacaaacaac aacaaaacc aaacactttg gcaagcaaag 360  
tattattagt acatagcagc ttcataacag tttacttttt taatataaag atttttcaat 420  
ttacacttgt aggagtagaa aaaactaata tgctaagtct gtaagctacg cagcaaaaaat 480  
aatgatctta atgaagccag aattctgtga aaatgtgcac ccactgcata tatagtagct 540  
gagtaaagtgt aaaccatgtg cttattaact cttctatata aaatatggac cccc 594

<210> 8118  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8118  
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tcataaactt aatcacaggat atgtatgcac aggaaaaaaa cagtatgtat aaggtttgtt 120  
attatctgtg gtttttagaca tccactgggg gtctggtttt agatatccac tgtatcccct 180  
gtggataagg gggtaactgc tgtatctttt agtagaagca agagcagccc catgtggggg 240  
ctaactactgg acactggtca gtttcagctc ctcatgcaaa gtgagggtat ccttgtggct 300  
ccagccctgg ggccccctgc ggtcaccttt ggctccacag tctggttctt gaacccaagg 360  
gcagacagct tgctacagcc caggcctgag gatgcacttc ttcaccagga cccacaaccc 420  
ctgcccataga agacctgtgg agctcanggc atccctgatg caagttggct angacctgcc 480  
cagcttgacac caacanggtc tgcgtcttca tntgaccagc agaccttgna ctnttcacca 540  
ctggggganga ctaaaggntt ta 562

<210> 8119  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 8119  
cttttttagga ctattcaaag taacaaaactt tttttgttgt ttttttttgt tttttacatt 60  
tttgctctgg tcataaatat acagagaaaa agaggagag aaaaatgaac aagtcattcca 120  
aagtatggag ataaaacagt attcctaagg cacgtggcag tctttgaaaa tacagaagct 180  
ctagccaact taaattatatt gttgtttttc ctgcgtcagt ccacaaaact gtacagtgc 240  
acaaatgttg tgttgcaggat agatcttcca agttgttcct cgggtccacac cgctgcatta 300

gccgggcgca	cacttctttt	ttttacctct	gtttccaggc	gagatcctaa	aatgtgggta	360
agttagtgtc	tcaaagcctc	tattttaaaa	tacacttgga	attcaactaa	agataattnc	420
ttttttaaag	aaattgnngg	gtgaagggtt	gcgagtcatt	agaaaaaggt	tggtaanagt	480
cnttgtnagg	ggcttaaggt	tatggccttc	caggttgcca	gccccnaagt	taagaccggn	540
cnccaantt						549

<210> 8120

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8120

caagagacag	ggtcttgctt	tggtgcccag	gctggagtgc	agtggtgcaa	tcatagctct	60
ctgtagcctc	aaactcatgg	ccttaagtga	tcttccttcc	ccagcctcct	gagtagctgg	120
gactacaggc	atgtgtcacc	acattttgta	gagatggagt	ctcgctaagt	tgcccacgct	180
ggtctccaat	tcctgggctc	aagtgatcct	ttcacctcgg	cctcccaaag	tgctgggatt	240
acaggcgtgc	ctggccacag	atgagaggat	ctctgcagca	gatagtactt	gtgggtgcga	300
gacctgtcca	gggcttgatt	tgaggagagg	agcctgaggc	ccctgcctgc	tccctgggtc	360
tcaggagctg	ttcttgggco	cctgttggtt	cctccgctgc	cggcccaact	ggcggaagtg	420
caccgcgttg	gggttgaggc	caaangcctg	cantcttttg	gcggctgaac	tgcattcac	480
caagcattac	antnggggnc	caanaaccog	gccttnttgg	gccttcttcc	gctttt	536

<210> 8121

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8121

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gctatgtgag	attttgaaag	ttctcgaaat	cagcttatgt	aagagactat	ttccaataat	120
aacagaaggc	tacaaaaatg	tcagaccaa	atagtaggca	gaaggtagaa	aactaaaccc	180
tgagaataat	agtcattaag	aagaccttga	tgtagacatt	gcatatgagc	atggagattc	240
aggaaggaaa	ttctggatga	ctggtggctg	acaactttca	aatataataa	atagagatag	300
gacttcaaaa	gaacttcaat	aggaatatat	gattttatag	tagcacctgg	ccttacttag	360
aataaaatcg	tttgttacaa	ctaaagccag	catacatgat	tcgcaatagg	agtaaaacttg	420
ctatagacat	tcctgncctc	aaatgatttt	aaaacccaat	tttctaagac	ctcntggaac	480
ctccagagac	cacttggtta	agttctggta	tatctcatat	ttaaangctc	aacacctgaa	540
aagctcaggg	attggaaaac	tntga				565

<210> 8122

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8122

gttaataatt	tgaagatgtt	tattgcattc	tatttttggg	gggaaaaaaaa	tgtaacatac	60
atttatattg	cacgacattg	tgaataacac	aaaacatgta	actgagaaag	caggaatttt	120
ctattcctag	tccatttctg	aggactaaat	catgaactgc	tccaatgta	attaaatatt	180

tcttacaata	gttgggcacc	aagttaaaga	tttattaatt	ttctcctctc	agtataggca	240
gcaattcacc	atthttctttc	agttcctaaa	aataaaaaac	aacaataata	atatgtatat	300
gcatatataa	aaagatggaa	acatctaaac	aatcacagct	tgtatgtata	tctgagaacc	360
aaaagaaaca	cctattggat	taaaactcca	gtctcttaac	actctcaaac	taaatgagcc	420
ataaaccttg	aatacactat	canggtaaaa	aatttaacca	ngnattcttg	gncaagtgtg	480
gnggctccaa	atgtaatncc	agcacttttg	gaggcccagg	tggcnaaaca	cttga	535

<210> 8123

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8123

aggttctgcc	agaccacctt	ttattacatc	agaaaagcaa	cactaggcac	tagatcttgc	60
aaaatatgtt	ctgaccaact	ctaaactgtc	tgaagttata	accatatcag	taagggtttt	120
aatgaacaaa	aaagttaaat	acaaaactttc	atatgcaaaa	tagattattg	tataactggc	180
aacctcagag	ccaagtacta	aattttcttc	cacaaatttc	agtgggggatg	gagtgggggag	240
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tgaggaaaaa	tagcttttaa	ttgaatagta	tcttttgaaa	taaacagctc	aggccagccc	360
ctacaattct	gaggttttata	ctcaaccaga	tctgggatga	aaatgaagat	ttaggggtta	420
cagtacttca	aatccatgaa	tccagttgga	agactaacc	agtcaccaca	tttccagaaa	480
ggggagtctc	tttaagggga	ccccacactt	tttcggaaga	ngccttgggt	aggtcanant	540
cccttgggca	caagttccac	tggttacggg	act			573

<210> 8124

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8124

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caacctctgc	ctcccagggt	caggcgattc	tcctgcctta	gtctcccagg	ttcaggcgat	120
tctcctgcct	cagcctccca	agtagctggg	attacagggt	ccaccaagca	cggctaaatt	180
tttttgtatt	tttagtagag	acggggcctc	accatgttgg	ccaggctggg	ctcgaactcc	240
cgacctcagg	tgatccgccc	acctcggcct	ccc aaagtgc	tgggattaca	gacgtgagcc	300
acagcaccca	gccgggactg	tttttactgg	aggaggggga	gaagacacac	agtggggaaa	360
gcgttctttc	aatatgcaga	tgcttcaggg	agaaccaaac	tatttctactg	gtattccccg	420
taccaccgga	actggtgctt	ggagcgggaag	ggaagtgaga	tcagtccant	agtcaccaac	480
accattatta	gcattgncca	aaaagtcaan	agccgacatn	atggaataaa	acacttgctg	540
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<210> 8125

<211> 605

<212> DNA

<213> Homo sapiens

<400> 8125

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gcacttctga	aagtccatta	taaagatgaa	tagaaaagca	aatggtaggt	tttcagttga	120
cccagaaacc	acacatagct	ataagaaaaca	taattgngca	tagttattta	ttcattcaga	180
atgtgatatg	ttggctagct	ctacattccc	agtctaccaa	agaacagggc	tgtctacttt	240
gctaaaccca	gggtcctttc	gaagctccca	gtaggtgtcg	ttagaaaccc	aggcttctct	300
ttgattggca	tcaataactt	ttttaaaaaa	ttttggnata	tgttcaagat	tggtttcttc	360
catatatcgg	ctccgagAAC	tctggagttc	ctctactctt	gnttcttgaa	gctggaactt	420
ctnaaattcc	ttttccaaaa	actttgactn	ggccggaanc	cggccgtttg	ttggtggaag	480
gagatctttt	agtcctggac	tactcattgg	gctcaanncc	aaccttgggg	aagccctant	540
ccagttcata	gttggtggca	tggaacctgg	cttccaaagc	nctttgcaaa	nggggcncac	600
ccnat						605

<210> 8126

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8126

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ttacgaaaag	agtccttgcc	cccaccccct	agaacatcct	gaacatagca	attcaacaga	180
acagaaaaat	caagacgttt	gatttcaaaa	tttcaataaa	aaagcaaaaag	tatgtaatgc	240
aacagctgtt	caacttccaa	ctctaaatag	gcaccattaa	acaaaaaacc	ccagtatttt	300
aaatttctcc	agcacacatt	ccaggatcaa	tgctctgaac	tgtaatcagc	tagtaattca	360
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ttggaaagtg	tanggattaa	gggatccaan	tcngaaggag	gattatttta	aaggaaaatg	480
ncccaagctg	cactgttttg	ctntggaa				508

<210> 8127

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8127

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ggctgtcgtg	ggaagagtca	gctgcacttt	ggcaccatct	caggtgcctg	tccaagccgg	180
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ccagatctgc	catctccttt	aggaccaggg	ccacgctgta	ccgcagctcc	tggaacttgg	300
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tcggctgcag	ggagcgagcc	agggcactgg	tggagattgc	tacatcacc	gccaccgaaa	420
gtcagcaaca	tgcnnaaacc	aagccccctg	ctgctggggc	cagaatcaag	gangggcccc	480
tggcttccaa	ataccacgt	tggcaagtgc	ccgaccaggt	ctttggggga	tgcaaaactt	540
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<210> 8128

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8128

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tagtctggan	anaaggcctt	gctcccattt	tggcttgngt	aatacctggg	tagtttctct	180
tgagtctgtc	aagcagagaa	caagggtata	aaagggtccat	ttatacatat	atggtaacaa	240
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gtagttcagc	caaagtggca	ttctctaaag	caaaattctt	ataaaatctt	ctctgcaata	360
ccaagctgca	agttaaaca	tttttttagct	ttgaagtga	ccaactttat	atttaactca	420
aacacatact	ttaaaaacat	tttcggggccc	aaactntatg	ttcacgaaga	aaataaaaaat	480
ggnggaaaat	ctcaggttta	atcgggacct	tactattcta	ttaaatgccg	caatntnttt	540
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<210> 8129

<211> 418

<212> DNA

<213> Homo sapiens

<400> 8129

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tagtactcaa	gaaaatagag	acagaaatca	tttgattttg	cccagaaacc	atctgcttat	120
atttataagg	ccacctaatt	tgaaatcaca	tatagaccag	gcgcggtggc	tcacgcctgt	180
aattccaaca	ctttggaagg	ccaaggcagg	tggatcacaa	ggtcaagaga	ttgagaccat	240
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ggcacgcacc	tgtagtccca	gctactcggg	aggctgangc	aggagaattg	cttgaaccca	360
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<210> 8130

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8130

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ggaaaaaacc	caagagaagg	aaacttttcc	acagtgacta	gcagaatgtc	ttgtagatac	180
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aatgagaata	gttcatgcct	aggataggct	aactataggc	tttgctagtc	ctccttccta	300
atagaatgcc	ctcagattat	tcctgagcta	tactcaagt	cacagatact	tcagaatata	360
atcttaggtt	ttgtaaacag	gaacatggtc	aaaatgcaat	acaatgggaa	aatctctaca	420
agagaatgag	atttggaag	ccatgcttaa	agtctctgag	ccacacaacc	cttaagaatc	480
ttcgagtacc	gtttaatctc	tcatncagga	acanttttcc	tttacccttg	naaggttgtg	540
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<210> 8131

<211> 481

<212> DNA

<213> Homo sapiens



<400> 8131

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aattcaagt	cgtaactagt	aagtcactaa	aaagataaat	gcattcattc	atgtaccaca	120
aaatcagaga	agacacgagg	acatgccgca	gtcagtgaaa	tagccgagaa	atcaacattt	180
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tccacattag	gctaaacaac	aagcacctgt	cagcagtgga	aaccaaaca	ttttgatgct	300
aaaaaatata	caagatat	agacgctatt	tcattggttg	tcaaaaacag	tgactactgc	360
caaataatta	aatttaaaat	attgtgccag	gtcctctcag	ggaaatgtga	aaataatact	420
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<210> 8132

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8132

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gtacagattt	tagtgaaggt	tgctccattc	caactggtaa	aacacagaag	taaaatgcc	180
gtctcagggg	atctcaaaaa	ttcaggggaa	gagtcagtat	gtgttccaaa	tttaaacaat	240
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cagaatattt	gatattttca	taaaatgtcc	ttggaataca	aaactaataa	attcaatgaa	360
gtgccacacc	gcccagggtt	tacctgcaaa	atctcagccc	tgactgaaca	aagcccaaca	420
attttgtcca	aaagggaggg	ctggtatttt	cttttccctg	ataaagaaac	cagtgaggaa	480
agcncnatgt	tcccttango	tnaatcatg	gttaagggct	tttccccaag	ancttggttt	540
aaggccngct	ngataagaag	ccttcctttg	g			571

<210> 8133

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8133

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agtggagata	agtttggggg	aaggtgcaag	gtgggttaat	gtgaaaaacg	gtaaatgcc	180
gttttaataa	caaaaatggt	actaaacgca	gatgaacatt	aaattaatac	agtataaaag	240
agaacagctt	aaataaactg	gtattcacat	attacaatag	caaagttatg	acagaatgaa	300
ctgaagacac	gaacagtttt	gaaaattctc	ttttcagcct	acttccaaat	agaaatagtc	360
aggctttttt	cctgtacata	gtttgatgct	ttgtctatac	catatatagt	agaaaaataa	420
aattcttttag	caacctagaa	acagttataa	aaactcttaa	aggtttaattt	ttctttgcc	480
gacatgccaa	ttgttaaact	gggccactnt	taaattaaag	cttttttgac	catagggttt	540
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<210> 8134

<211> 463

<212> DNA

<213> Homo sapiens

<400> 8134

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gaatcacaaa atcgagcacc acacagctgg gtgtcggcga cacactcacc atgacagtgt  180
tccacctcaa tgtagccact ctctgggttt ctgctcagct tccagatatg cacaaagggtg  240
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cgggcatggg cattgatctg gacatgtaga tttcctgtag tggcctcata tagatgcact  360
tgtccgttcc catagcctgc tgctatgata ccctgccaca gctgcacaga ggggcacgga  420
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<210> 8135

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8135

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ctataaaatt gatgtgcagt taattgtaaa aggataacac tatttgttta gaaacaagct  120
gcttcctctg tttatatttc cttattcttg atataaattg gagacagata ctatttaaaa  180
ataatgcttt ttaaatagta aaatatacaa gagattcctg agcataacaa aaatatcttg  240
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tactgtttga aggcttataa acagtacaaa atagtttgcc ttttctgact gcataattat  360
acattagtgc aaacaaaaat gtctcaaaaat ttaatggcta caaatctcaa agatttgagc  420
aggtgcgcaa aacatggaat ttcttttagcg tcatgcgaac tgaccagctc togattaatc  480
cctttcaaac gatcttccan gnttncggat taatcttggc tgtaaagtgg attcgtcctc  540
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<210> 8136

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8136

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gccaaattga atcaacccca atgttttatt taatttaaag ttttaaaagg cagtgggttaa   60
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tatacaggaa accaaccctt tttcaacttt agccactgat gagctaggcc cactgtctag  180
tgcagtactc actttctact tcttcatagg accaattcta aaagtaaaaa taaacaccct  240
ttatcagttt aacagtaact aattgtgttt ctttttttta aataaataaa gttactatta  300
aactgatcac atatggtaga aacgtagaac tcacacacac accagcacac acagtcccca  360
atttaaaatg tgatgtatga atgacctata tgtacaaatg ggtgctgctg acttccccac  420
cccaagcaga ggccatgaaa gactnccatt acttcaggga gtccccattc tctatgctgg  480
gatggaggat gtgtggngtn ctngcacccc nggntagaac ttagaatgca cacttcccat  540
gcgctgatnc anatgggggg tcaattctat ggg                    573

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<210> 8137

<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 8137  
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gcactttggg atgccaaggc aggcctnctg cctgatgtta ggagttcgag acagcctggc 180  
caacatggtg aaaccctgcc tctactaaaa atacaaaaat taggctgggc gcggtggntc 240  
atgcctgtta tccagcact ttgggaggcc naggcgggtg gataaccaag tcangagatc 300  
nanaccatcn tagccaacat gatgaaaccc cgnctttant aaaat 345

<210> 8138  
<211> 592  
<212> DNA  
<213> Homo sapiens

<400> 8138  
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acagagtcca cctggactcg gaggaaggcc gagaggacac ggacgggtggc cacaccacgc 180  
tgcagtgaag gcccaagtgt gatggcagag aaagagggaa agttggagaa agagcggtat 240  
ctgacaataa cttttctctt ggatgttaat tttttggtct ataaattgga aaggaaggct 300  
cggactgaaa taaatacatt tattctgagt aatgaccttt tgggagcagt gtccgtcaac 360  
tctgcttcga gagcgtctcc acgtgagcag cancgacctgt ctgcgcctn gccgaggcgg 420  
aaccacaccg gccttcaacg gangcgggtt tctnctngnt cttgtgaang gaaatanacg 480  
gtgcgtactg gtcttaatgg aaccggacaa tgaaggcctt tntttttgac anaaaaatgt 540  
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<210> 8139  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 8139  
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agctatttgt cctactgctc tgccctccct cgacccccac ccctcttaaa attcttttta 180  
ttttccacac tgagtcttca aagtctgggtg tgtatcatac agcacatctc aatagccaca 240  
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cattggacga tgcaggctctg gacaagtgcc tggatatattg tgggcacaat tcttgaatgg 360  
acccacgcca atgtacgctg cgcttttgcc tgggccgttc cttcttccta gaatgtcctg 420  
cttctttctc tttgctaact catgtgaatg aactttttta aaaattagta tccttcaaaa 480  
ctgnanttgc ttaagcgttc tgaagtgang ncctctgact tttcaagtgc cgggtgcttct 540  
tgntctgggg ctnttaactt caaaagtggg tctgctgngc ctanttgg 588

<210> 8140  
<211> 584

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 8140

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aagccaggat acaaagttaa ggatgggggt aagggaggga cattttcttc cagaagaaaa   180
gacagaatth ctgaagagtc ccagtcataa attttcccaa aatggttgga ggagagggtg   240
aaatctcaac atgagtttca aagtactgtc tctgtgaggg gccggtagat gccttgctga   300
ggaggggatg gctaagtttg accatgcccc atcccagct aggagaatgg aaatggaaaag   360
tttattgccc agtgggtgtg aaagtgggct gaagcttggt tggtagttaa ttctctaaga   420
ggtttcttct agaaacagac aactcanact ctctctctca cttcagcaaa gaagttatth   480
ttnaaagccc ttgggaaagt tcctctctca cccgcangtg ggaaggctca aaaaaggggg   540
cattantcca gccgctttta ggccgnaccg gaattcctga aggt

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<210> 8141

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8141

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acatttatca tgtaatttaa tctgcttttt tgnatattag cttttacata tagaatcggg   60
tatctcagga tccctaatat ataaaagacc cgcataagaa aaaaacattt gatgatatgc   120
ataaaatcac aaccacaata attggaccat aattagacta gttaagagat gaggaatata   180
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aacattaatt tttgtatata aacaaattag ttatctcaag tccttaaaaag tttacatcta   300
aaaaaacagg tcaagatgaa gaaataactt tgtagtttaa acttccacat gtgctccttt   360
gggtgggttt gccttggatt ttgcttctct tgaaatcttt ccattttgac attgagtaaa   420
tctggctctg nagaacacc atccacaaac ttggnittga aaagaacgtt tgcattgggtg   480
acatccttct tttagggacc cccatgaact gngaattgnt gaaatgggtc cccanattgg   540
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<210> 8142

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8142

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tgggcagata aatttaggaa gccaagaaca cagaacgaaa agccagtcac cagatcttac   180
aaataatcat ctaaacttct ctggccattc aatttgatac attatcccaa atattccatg   240
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ttctttttct tcaattcacc tctgcttttc tcatattcat tctttgatgc tganggtcct   480
gcgcacaatg naatgggttt gctacaggcc tgganaactt aatccggnct tcctcgctta   540
agtgaacat ggtttcatng ggttngggtt ctttaaaagg gg

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<210> 8143  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 8143  
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ctgcatntc caccgggctc ggaggagtgc anatgcctga ggtaaagcc ccagggtctn 180  
ttcaacagta acccaccoca ctgataagtt acatgatacg tgtgtgggtgc ctgtgagtgc 240  
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tcttctcagg gtttatcttg atgtaaactt gaaatattaa gatagccagt ncagtaagaa 360  
atcaaaaagaa tgggagacat ttaaaaactc tctatatctt aaacttctct ttagngttgg 420  
aataattgta aaaaaaaaaa aagttggccc taagtctgcc tttatagggg ccacattaat 480  
ttctaaaattc ttggatttct aggttaagtca gggaaaaggc aatttnttta acaggcagcc 540  
cnaatcaaggg tgcttttanc cctggaacct anangg 576

<210> 8144  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 8144  
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tacagcatgt ttaatagtat gcaatatgca aaagctttgt gttgctgtta gcaacatcta 180  
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cattcatittg actcaagggt atagacttcc accgtattca gaaattcatt gccatccgaa 360  
tcttcccact gcataaatgg ngtcctaca gttgcaatcc cagcattgct ccttgggtgaa 420  
gcataattcc catcatcttc cattcatittc tagttgggat catacatttt ccacaaactg 480  
atggcatgag aaccatcana ggnccccaca tncnaacagg gtttcntta agaacagnca 540  
cttccagttc ttgcctagcc cnc 563

<210> 8145  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 8145  
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aaaaaagggtg tggggtgaga gtggatggaa ggcagtcaga aggggtgagag ttattttcaa 120  
gttacctaaa gtgccaggct aatttgtttt aacctttcca agaaagtga actgagcata 180  
agctataatg agataagggg acacattcat gggaaaagac ttcattcttg ttttaactaaa 240  
ttttaatact tctggaaaaa aaatttaagt ttggttaata ccaagctgaa catcatataa 300  
agaaaaaaaa aaacagccct taaatgttta agggatccgg actgtatcca tgggtgaagg 360  
ctacctgaac aaagttaaaa aggaaatgat ctccactaaa gaagtctgtg gcatgacagc 420

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cccttcaagt	tgttgnccaa	aaactgnntt	ttaagaccac	ccagcattnt	agactcacct	540
tcccggaaca	tgagagnatt	attccttcaa	ctanggaa			578

<210> 8146

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8146

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taaaaatata	cacggaaaaa	aataaaacaa	aatatatacn	cagaaagaag	ctcgcacaga	120
gtcaggcgtg	cagcaacgtc	acacactcat	tcctttctgt	ttcctctgga	cactcaaaaat	180
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tttaaaaaat	ttaaaacgtc	aaaacctgcc	agaataagac	aatagaagag	cgtatcgtca	300
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ataaaagcta	cacgattcag	aggtaaccct	aactatccgc	aatcccaacc	aaagtcatgt	420
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atgggccagt	cccagcaaca	agggtnatte	agcaggcggt	ttttaccgga	ctcatgatgg	540
gattcatttt	naaatncttn	nac				563

<210> 8147

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8147

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gtttaaagtg	catctcaggt	atttcagata	acagaagtaa	ttctaccact	ctcaaaattt	180
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agaaacgttt	ggtatcattc	gtccagatcc	cattttacag	aaaagaaact	acaggagtgg	300
ccatttgcac	ctatgttctg	atttcaagtt	tggtgtttta	cccattgcc	ggcctctcat	360
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tccttatccc	atcctattct	ttggggataa	accngaagg	atcanggtta	acccaaggct	540
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<210> 8148

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8148

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gtttcatcta	tgtactcaat	tacccacac	tcagatgatt	ttgaagcgaa	taccagtaac	180
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caacataacc	acagtaccat	atcacatctt	aaaaaacaat	aatcaagaa	gttatatatt	300
tatttcaa	atgtgaaca	ctggggacac	aatcaatata	tttcaactgg	atcatgagga	360
agagtgtcac	actaaaatgg	agtccaagct	tttatcgatg	caatttgctt	ataatataaa	420
agaaaaaatc	aaacaaacta	gcatattaga	accacttttg	gnaatttgta	aggagctgaa	480
gactgntgat	atcccatncc	atggngaact	ccgtagaatt	cttctaacat	ctttggnatt	540
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<210> 8149

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8149

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aggactacag	atgcacaaca	ccatgaccgg	ctaatttttc	tatctttagt	atagacggga	180
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aataaatggc	cataattcag	tgttctgagc	tctgtaacaa	ggtgtacact	aagtggtagg	360
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tttgaggaag	aagtttgagt	ctaataccta	aggaagaaca	tgttggggaa	atttgagact	480
nttaagcagt	cacaggcaca	tgggaaaagg	nagtttctga	ctgcaaaata	aataccggta	540
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<210> 8150

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8150

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ccagtttcct	tgtgaggctc	ttaacatctc	cacacacaca	cactcgcaca	cacctgatgt	180
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gctcgataca	atactaaggt	ggatacaata	ctatgtcgca	caaacgtcgt	tgagtgaggg	360
gcctctgctc	ccagtccttg	aagtcttgca	aaggaatcac	ctactttcac	gagtcacctn	420
acagatgccg	gttgcccaca	gcccgggang	ccatgcacac	gggcaggcgc	cgtgaacatt	480
ttcccgtgcg	gtaccagact	ttgnngcatg	tggctttaag	tgctgatggg	gcnnggtggc	540
nttnaggacg	gcaggagccc	cntaatgatn	tgggtgaagt	catgggctcc	tccccc	597

<210> 8151

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8151

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aatatttttc	tcaaatgtgc	taataagaaa	aagaccacag	aaactgaacg	atattggaca	120
cagttttcag	tgtttttagac	ataaataaac	tcatgaattt	catatggatt	ctggaatatt	180
taccactact	cccctaacga	tgcattttagc	atagaacaaa	aatatgaaca	tttgaacaag	240
tccaatctaa	cacattttcaa	aacaatcaga	tcttttgaaa	actgttttcc	ataagtaccc	300
cttgccattc	atggaagagt	tatgaggatg	cccatgaatt	tattcatgga	cactcccata	360
ctaagaaaaa	gaaaaccatg	tagatgggta	atataatttg	actatttggt	cccgcccaaa	420
cctcaagttg	aaatgtaatc	ccaataactg	gagggtgggc	ctgggtgggaa	gtgtttggag	480
cacaaangng	gatccctcat	gaatgggctg	ggccttcctt	tnggggaaaa	agacttcttg	540
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<210> 8152

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8152

catggtacaa	atgataaatt	atattttatac	agtaaataag	tatcaacggt	caacacaagt	60
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ngcccatcag	gagggagcac	gatggcacag	gtgcaacatg	cgtggcagtg	gccgggtggct	180
tcatgatcag	tgcatgtggc	aacagggaca	tgcactcggg	atggcctgtg	ccanaanatg	240
gggcaggggg	ctgtcttctt	gggtcccggg	ggcccagtg	ctgtcatgtc	ggggcctcaa	300
agtcacatca	tgaaagactc	gttacaaaaa	aatcactgac	cccaagtagt	cgagtctagt	360
ctactgacct	gtaaggctgg	cccaggccct	gcaccgtctg	aaggaaagca	cctttctggg	420
caagcatcct	gcctcccata	ccattgnacc	tncccaccct	tcccggcgag	acnagaccac	480
ccccgggtta	cccaaattgg	aacgggagcc	taaaaccanc	cnaaggctgc	aattttttgga	540
aaagnggntt	ggtangaacn	ttaaaccggt	tctnggga			578

<210> 8153

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8153

caaataattt	aatagtttta	tttcgcaaag	agaagcctaa	gaattttttt	aaaaacattt	60
ccagagagaa	cacttttatac	cataaaaataa	acttgtataa	tttgggagga	caaatacatc	120
caaagtata	tttttgaatt	atgtgccaat	tttataatta	gtacaaaaat	gacagctgaa	180
atatttttaa	aatgtaaaaa	ccagtccagg	caacataact	ataccatctt	gctgtaaaag	240
tacttatatc	gaattccgca	caaaatattt	ttgcaatatg	ctaaatttag	ttcttcaagt	300
cactcttcac	tgccggctgg	cttttccatt	ttctgttgtc	tccatcccat	tttctctttt	360
aagatgttga	tatagtccag	ctctgttatt	aacagagttc	aaacgtccag	caaattcctg	420
atgttttctg	gaattggcag	tattgattct	attactccac	aaggataata	acgacactgg	480
ggccctttng	atttttcccc	ttngggagtt	catccatttn	accanggggt	ttttggttgg	540
aaggtctngg	gaatcagcga	actttataat	cnagcttn			578

<210> 8154

<211> 595

<212> DNA

<213> Homo sapiens



<400> 8154

ggaggcggag	tctcaaaaaa	ataataatta	taaaataaaa	taaaaatagt	tcaaaacaga	60
tcacagacct	atgtaatgct	acaactataa	gactattaga	agaaaacata	ggggttgcta	120
tagtttgaat	gtatccctta	aaaaatcaca	tggttgaaac	ttagtccctc	tgccctcatg	180
aacagattaa	ttaataaaaag	ctttgccctc	atacatggat	taatgtcact	atcatggggag	240
tgggtttgtt	cttgcttgcc	ctctcaccat	gtgatgccct	ctgccatatt	atgacacagc	300
aagaaggccc	taaccaaatg	ccaggcacca	tggtcttaga	cttctcagcc	tccggaacca	360
tgagctaagt	aaatttcttt	agaaattacc	cagtctgtgg	tattctgttt	agtaacagaa	420
aactgncttt	actaaagaca	gtagtaaadc	ttgtgacct	tggggtaagg	caatgattcn	480
tagatatggc	tgcccaagtg	gccaaaaaat	ngataactgg	acttcatcaa	aattaagggt	540
tacattcaaa	agatncntt	annaaagtta	aagaccacc	ccgaatggga	gattt	595

<210> 8155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8155

gaataaataa	gcatcaatth	tattgaatca	tgaataatth	aagactggta	caatcatcag	60
ctttattctc	tatgacatgg	ggcatgatgt	ccagcagatc	attggcaaat	ccaaaaacct	120
catgacaaat	gaaaattaaa	taggtaggaa	gagagagaga	ggagggggagg	aggaagggga	180
gggaggatgg	aaacataaccg	tacacaaaaat	actcaattcc	tagttttctc	tttaaaaaatg	240
gctagaaaaa	attcatcaaa	atgcagcaact	ttaatcaatt	atttacaatt	tctatgttac	300
aatgaaaaaa	tgtacatctt	atagaacata	tttcataaaa	ctgctccact	ggaaacaaact	360
agatcaaaaac	agcaaacctt	ccattttaata	tccacaaagt	tggattatth	ttcctttttg	420
aagtaagatt	cgccccaatc	aaatttgaat	nccgagaatt	ttggaagtta	agcctcaacc	480
accaagtaaa	agtccccaag	atccaccaag	atctaggcag	gcttggtcct	gtccaatcca	540
ccancccta	atgaacttaa	agggtttcca	ttcaatattg	gccggncatn		590

<210> 8156

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8156

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gcgcactgac	atggaaaaag	tgtcttttaa	aaaaaatccc	agtaaagcaa	atcaaagtta	120
atgtagtttc	agttgaacaa	aaattttaaag	acgtttaata	cattacacat	ttataaaaata	180
aaagtcaaca	aagggtgttt	tgtaaataat	tagtaaacia	gtgaaaataa	atatcagaga	240
cctgaagttt	ttatacttta	atgaataaaag	caaagaaatt	taaactaagt	aaatataatc	300
tgagaggcag	ttaaaaaaac	aaaaatcaaa	acccacaaa	attgaagaac	acaatctttt	360
gaaacattta	atcagttcat	agcaaatagt	tattacatac	caaaaagctc	taagtgttaa	420
ctagttcccc	acaatgnent	gtaaatcttg	acaatttaga	aatcttgaga	tccacactta	480
aggtcntttc	ttgactctac	acttgggttg	taagtccctc	ctgcttttgg	ggactattcc	540
cttgacacac	ccccntttca	aggngccata	cattttttcat	tgggcctaa		589

<210> 8157

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<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 8157  
gttagtgttt cttttattat aaagcactga aataagttaa ataaacaggt gggaggctgg 60  
gcagtcccc agccggtttg tccacagccc ctgggggcag tggaggtgaa tacagggcc 120  
ttctcactga gctcatgaag tgccctcagtc aaggcaaggt ccccttggtcc atatgggcc 180  
ccccgcccat ggggttgggc tggctcctat agtcgctacg ttagtctgtg tggagcccct 240  
ggccagcggg ggagaaaaag gtggcttctg gtccgtctgt ataaaacatg gggaagaagg 300  
acctagtcca ggatgagtc gtgtggacag cccggctgcc agcagtcgcc agggctgggtg 360  
ggccccgaga gctcaaaaca gaggggtggc tatgagggtg ggcccagccc tcagaggcan 420  
agagaccagg cccttctgcc ccaccgtggc catgcacctt ttgtggcgct tgtaattgtn 480  
ccaatggccn tggatatagc ncagtingcac aacngnaagg ctnt 525

<210> 8158  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 8158  
aaaaaaaaa aaaatttatt ggtgacgttg aagaaaagg ctgaggggtg gatggctgga 60  
gctggggcta cgtaggcggc ccctcctggt ctccctgctg catccgtgcg atcagctgtt 120  
gccgctcggc cgcctggcgc atgcgcatca tgacgaggct ctctgtagtc ctctctgaca 180  
gcaactgagcc ctttgacagt cctgagtggc tgcggccac ggcacccctg ggctgtccct 240  
ccaaccagga aatcttcaga gggttatcca ccaggccaac ttcattcttg acagccagct 300  
ccgctgcctt gacggttgca aactccacca cagcagtgcc tggcttctta ctggaaagca 360  
ccaggttgag aacctcacca tacttctgca aaagcccgtg ggangacgtc tttggagtaa 420  
ccaccttttg actcatctcc ttcttgcaact tncatttagc cttanttttg ggggtccttg 480  
gccttcaata ntttctggct ttctntnaac tttnggcacg ctctggggta tntgttccgg 540  
ataa 544

<210> 8159  
<211> 592  
<212> DNA  
<213> Homo sapiens

<400> 8159  
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attgaaaaat ataataatca taaagtctgt gtctggacat cgcctttggg aactagaagg 120  
ggagtggta ttgtaccagc tggactaagc tccagttcta gacctccttg ctcatccaac 180  
atgcctccct acctaaataa aagtgaaca ctcagtgcac gtcccagccc cattctccca 240  
agcatgggag tgggcgtagg agtggaggag ggggaaggaa aaaggaatta cttcacttac 300  
acctatgatg ccctttgccc aagccagaag aaagcaaagg ggaaaagggc tgcagggtca 360  
ttatttattt tcacttgaac atggaaagaa agtgtcacac tcccccttcc ctttataggg 420  
ggaagtgtat tttaatcagc aaccctcttc ttccatncac cctgngnatg tgtgacccat 480  
ttaccacccc agttgggang catgactagg ctgccanct tatctggtcc tcctttgaan 540  
anggtttgcc aaatgggaaa aaggaaggac ccnttaggc aaaggttcaa ct 592

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<210> 8160  
<211> 438  
<212> DNA  
<213> Homo sapiens

<400> 8160  
gagagcacaa ctccaaatca ttttttatta atataaaaag ggcatattta gcaaaagaca 60  
cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggctgtgcc 120  
cctgctgggg gagaaggagg ctggggacaa agtgggagaa gtgctgggaa gggctgagcg 180  
gtaggggcca caaaagttcc ggtgggcaac actgtcggca ggtcatgggt gggactcatg 240  
gggacctgcg tgctaactct tgttgtgggg ggggtgcctt agtgctgcca cctggagggc 300  
cactccttgg ttcttgagg ggaccaccca agggacacag gacaggaagc ccaggatggt 360  
tagtgcaact cgggatgaag ccanggagaa cgggtgctct gcaatggccg gataggcca 420  
gacgctgagg cnnnnnnn 438

<210> 8161  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 8161  
gcatttcaaa tatttcaata gttttatttc gcaaagagaa gcctaagaat ttttttaaaa 60  
acatttccag agagaacact ttataccata aaataaactt gtataatttg ggaggacaaa 120  
tcattctcaa tgtatatttt tgaattatgt gccaatatta taattagtagc aaaaatgaca 180  
gctgaaatat tttaaaaatg taaaaaccag tccaggcaac ataactatac catcctgctg 240  
taaaagtact tatatcgaat tccgcacaaa atatttttgc aatatgctaa atttagttct 300  
tcaagtcaact cttcactgcc ggctggcttt tccattttct gntgntcca tcccattttc 360  
ctctttaaga tgttgatata gttcagctct gttattaaca gagttcaaac cgtncagcaa 420  
attcccgagg gtttctggaa ttggcagtan tggatctatt actccccaag ggtaataacg 480  
acctggnctt tttgattttn ccctgnggag ttcattcctn aacaaggggt tttgttngaa 540  
ggtcttgagg acagcgaact ttataatcta gctcc 575

<210> 8162  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 8162  
ccaagacaga gtcttgctgt cccccaggct ggagtgcagt ggcatgatct tggctctctg 60  
caatctccgc ctcttgatt caagcaattc tcctgcctca gcctcccaag tagctgggat 120  
tacaggcacg caccaccaca tccagctaatt tttgtatttt tagtagagat ggggtttctc 180  
catgttggtc aggttggtct caaactcctg actttgtgat ctgccgcct cggcctccca 240  
aagtgtgga attacagatg tgagccactg ggcccagccc agaacttgggt tttatccacc 300  
tctggtgaaa catgagctca cttggtgctc tctggcctct ttattcccat ctcttaggc 360  
tgacctgac aagcgccagg gccaggcttg gaccaagcag tcaactgagt cagcctgccc 420  
tgggaccag gcagggaag gagcttacgg acggctangc tcaggaaaag ttagaaagaa 480  
cccgataaag gcaaaattcc tggccgaaag gcacttaacn taaggatgga acctcttgtt 540

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gccttgaagg gccgtaancc tgtttgnctg ggggatgact n 581

<210> 8163  
<211> 591  
<212> DNA  
<213> Homo sapiens

<400> 8163  
aaataaatta aatttaattc aatagaaaca cacacattgt tactagcata agtaacaaaa 60  
acttccaatg ttttaacaaag taagtaaaat gtgataagca tgtacagtct aagaattttc 120  
tacatgcatt cttgttaaac tactactttt gctttgttca gactttataa tacctttctc 180  
caaacagctt atccttgatt tttttaaaaa ttcaaatacc cacaagtttc agtgaataga 240  
ttgtgaaata aagactatct ctaaaaatac cttcatgttc acattctgac agagtaaaca 300  
ataagaattg agaatcaaga ggctatgttg tttcaaaaac ctaaaaagaa acactgcagg 360  
acagatcttt tatgagtatg atcttttgnt ttgntttctt acagtttttg gtaaagcaaa 420  
atcaaaaggg cactactaaga gtaaaacaca gaaataatcc tttaaaacaa ttttaagtta 480  
agcngggact caactttacc atgggctctg gtaaacact ttggtcattc taccncaaat 540  
cttcaaaatg gaaatagggt taataggatt ttaaaaaggt nggctgatgg n 591

<210> 8164  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 8164  
agcaaataaa catTTTTattt ccacagcacg ccttccctct tcccaaagaa catgagttca 60  
cctcagccat caaagcagag ggcgaaaagct gcaagtgaac aggcaagagg ctccctagaaa 120  
aatagattat acccaaggct ctccctcctg ggacccaaac ccgtccccag gctccccctc 180  
agagcttgcc aaatggagtg aaaggcatgg aaaggggctg ggagaaaagc cagctccact 240  
gaacaaaggg gagaggagcc tggcagtgag cagacctggg aggggtgttg ggtgggatga 300  
gctttgctcc ttggttgagt gctggaaaag ggaaggggga agaaataatt tatgttgatg 360  
taattaatgt aatgatgatg taatggtgcg tggtttcaat catggcgacc attccagatc 420  
tctctcaagt gaactaaatt ctggcccggg ctgttggaac gacatagtag gtgaaanaaa 480  
gcttaacttg gaagcccnga ag 502

<210> 8165  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 8165  
agctagtatc ttttattgtc agaacttctg tgagccaaca aacagttttg catggttgta 60  
caciaaggga caaggcaaat ttcttttttc gtgtgggtag acttagttgg cccaagtcct 120  
taaaactttt ccatataaaa ataaaaagtc caagaccaga ttatttttct tctggtcata 180  
aatgctgatt tatttacagg tgccttggtc agaccaccat tataaacttg ggataaaata 240  
tgtgtgtatt aaagcctcag catttaatgt cagggtcctt tgaagattca ctcaagtgtt 300  
aagacgtttc tggaatgcag cgtctctccc ccatagtcaa catggttatt atatctgtaa 360  
tctatccaga atgatagaag ctaaccttcc aagtaacact ttgtttttta cttaaatctt 420

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ttagacatga aagactccaa aatgacttca ttcttgggtct aaaaccagcc tgggagccag 480  
ctgntgaana atggnntata aat 503

<210> 8166

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8166

gcatgtaact tttttattga gggcacaaca aggcattgta acttgccctgg acttgaggca 60  
gtcagtttag taagctgaac gttataacag ttaaggatta agtgcaaaca atatacattc 120  
acagcttgac tagcgaggct acatcacaaat ttataaagtg ccagattagt gctaattgtc 180  
attcagcttg atttttcacc tcaggaagga aaacaaaaaa gtaaggacct cctccctcta 240  
ggaacaaaaa ctttttccta aaccaatcag tcatgagggc aaagactact tttccttcaa 300  
tcccactaat tagaacacca tccttttatt gncaatactg tactgacttt caatcttgat 360  
aaagaagata gcctgaaaac gtagaatatt tccagctact tccataaatt gctcccctgt 420  
gcagacgtaa ccatactctgg tctccctgga agancgtgaag aattgcatga atgctagcag 480  
tttcatggnc tngagcccca 500

<210> 8167

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8167

gagagttaga acaaagaaac tttaatgttc tggctgacta cactatgttg ataggctcac 60  
aattactgca tctatactga aaatacatag actcttttcc ttatcatgat tccctaaaca 120  
atacaataga acaactatit gcatagcttt tataatgcat gaggtatitit aagtaattcta 180  
gacataattg agactatata agaggatgtg ggtaagttac atacaaatat gtcattttat 240  
aaaagggact tgacatggct cacagagtgc tggaaaccaat acccagcagg tatcaagcga 300  
tgactgtact ggaaagaaac tgaaactact taaggcttta ccaagtgtct acattcacag 360  
ggtctatctc caatgtgttt cgtacaagta tctgaaatga aataaaatta ataaatgtct 420  
tcccacattc catacattta gagagaatgc aagttagtct ttttatgtct atgcaaggaa 480  
ctgagagaac caatgctttt 500

<210> 8168

<211> 486

<212> DNA

<213> Homo sapiens

<400> 8168

cccagccctc aggccacttt attgctcaan agtgggtcagt ctgggggtatc tgcattgcctg 60  
aactccatga tgatgtcncc tgtgtcgggg tgaaactcca ctgcatagct gacagtccgt 120  
gggccaccca gcagtgtctt gggatctggg gcagggtctga anaagtagac ggctgtcttg 180  
cagtgggggt tccagcagca gccccctcg gggtctgcag gctccaggag gccagtgtctg 240  
agcgtgcact ccgggggtcag gtggtaactcc atccatagca ccgctgcgtg gctntgcccg 300  
ggccttctga gctccacggg gccctcggca cacaggggct gcagggggcac cggctgtctgg 360  
aagtcaaagg tcaggatctg ccagggtctg gaaaggctgc ggcatgggta ctcccacanc 420

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gggtggggct taacttcct gctntcctga aatncaaggc acccttaaac atgtcgccat 480  
ganggg 486

<210> 8169  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 8169  
aatggtggaa atattccaaa attccatatt ttgggattta tacacaaaag ataaacaaat 60  
tagaggccaa gaggctgccg gaagggaaaa acggggcctg ggaaggccgt tgtgaggaat 120  
gagctggggc taaagaggcc actggcaggc aggagctgga cctgctgaag tggccgaaag 180  
gcaggagctt tggactgggg aggccacagt gaggcgagag ctagctgggc gtggagagtc 240  
cgctgtgagg ccgaggccga ggccggggccc gtgcaggcct ttgagaggca ggagctgagt 300  
ccaaagacgt tgttgggagg ccaaagtcgg gcctggagac gcagccggga ggaagagctg 360  
ggctggggccc gaaagaggcc actgggaggc aggaggagct gggcctggan aggctgactc 420  
gaggaacttt tgcaccggga aaagcccgca aaaggccgga acttggcctt ggggaaccca 480  
cttgaaaacn acttgggcct tn 502

<210> 8170  
<211> 496  
<212> DNA  
<213> Homo sapiens

<400> 8170  
ccattgcacc tttattgggt tattctgttc actgttcaga attttcatac agtctttcta 60  
gaatcacaca gagcctactg agtagctcct tccccctgac actgctttat ttctaaccag 120  
cctcctctca tcccttatcc ttagtgatg atattctgct agtgtccagg gagttcccag 180  
ggttgtttt acaggggagg gagaagggtg tgcggtggta tgcctgcagc tttctctcct 240  
ctccacctcc tttcttgttc agcagcctcc ggaccccaa gggctaagga atcagacaca 300  
ttgggttttg atcttgactc cactagaagc catgtgatct caggagacatt tcttgacctc 360  
tgtgagccct ttttcttct tctacaatgt ggagaaaaga ctccctctct cacaggggtt 420  
actacaagaa ttcaatgact ccaagtatcc aaagcatctg gcacagtgcc tgggcacaca 480  
gtacgcccta catgcc 496

<210> 8171  
<211> 494  
<212> DNA  
<213> Homo sapiens

<400> 8171  
aaaactcaag ttttattgca atacatcttg cattacattc taataataaa cggttgaagt 60  
ataaattttg aaattagtta ccaaaaatca tttactaaac agtagtttta ctaaaaatac 120  
taggattggg aaaaataaac actaatagaa agtactccaa aatgttaaca acgtttctat 180  
gggcattggg attgggggtg gtttatactt tctcattttc tgtattacca acacttacaa 240  
ttcacaatca ggagaaaaac ctattatatg atacttaaaa cattaaatct ctgattgtca 300  
cctataggaa aaggcaactc actatccatt tgaaagatcc ctttagactt ctgatcgacc 360  
tcactcgata actgcacaac ctctggacac aaagaggccg aattgtcccc ccaatttcac 420

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ctccccctatt acccacaaca gcagcgatat gggtttgggc tcttgngtcc ccacccaaat 480  
ctncnatagt aatc 494

<210> 8172

<211> 495

<212> DNA

<213> Homo sapiens

<400> 8172

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ccagaagagt tatttaaaaa aaaaagagag agagagaagg agaaagaact caagcactgg 120  
ccatattctc tgttaaacac acacacacac acacacacac acacacacaa acacacacac 180  
acaccccaaa caacaaaaat cagaaacaga agaaaattaa aaaaccaccc tgccactaaa 240  
ttgagtaatt tccagaatgc agtatcccta tgttctacag caggtcagga agatggctat 300  
aaacagagtc caggaaggtc tggctggcctt cctggctctt gactccaata atttcgaata 360  
gccggtctag tttgtcctca gcctggggaa tctcttcaat caccgcagc tcctcaggat 420  
ttagaaagtg gagcatgtca tcaaagatag gctgcaagtc acaggggtca agcgtacctg 480  
ncgnacactg ggttc 495

<210> 8173

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8173

gacggtgtca aactctgctt tattggaata gagaatacag gcagcaggaa tcacgcttgg 60  
tgctggcagc tccaggtccc ctgccccac gggctctccc acttgtcttg atcaggggag 120  
acctccactt tgaagaacaa tatgggggtg gagcttccaa tgtgcattct gctaccagcc 180  
tcaggattag cagcaagatg ccaacagcaa cagcaacagc aacagcaaca gcaacaaagg 240  
actggactcg acattcagg aaaggacgtg tagaagagaa agtcagaccc acagtgtcac 300  
gtgttaacaa cgggtcccaca acagcagaca cgacactggg gtgcatggct gtaccacctg 360  
tgggagggtg acagcacacc gacagccctg agggggcccg cattctcact cccaacatga 420  
gaaagaatta acaccacaca cacacatggt cacattctct gcgaggacag tcaaattaag 480  
gnccccaagg gagggg 496

<210> 8174

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8174

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cccaaaaatt atctttcaac aatctgatga agtttcttaa agaaactctt aaaaatgaag 180  
ataatatacc tggcctaaat caaaacaatc tgaaaaatgg atgtgtccca gtggaaagac 240  
tcaagtcttt tcaagtttat cagaaatgcc actatacacc actgtactat aagtcgagga 300  
ggatggatat ccaaaggat catttgttga cggttcctga tggctctcagg tatatcctat 360  
aatcactggg tactatgcat catttcttgt agataaatgg tattcatgtg ataagctgcc 420

09629469.072800

atccaacttg	gatgtctctg	agcattccaa	taatatgaat	gagaaaacggc	agcataatat	480
tcttgccatg	ccctgtanta	agctctccag	ntctcccatta	atcccgatag	gnttaanaaaa	540
acctcagacc	gntttncctn	tgccggcatt	ccca			574

<210> 8175

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8175

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acagaaaaac	atgattctaa	aataaataca	caggcttttt	aaaaaaaaact	taattagggc	120
ctgtctagt	atgccctggg	ccggtgctgc	actgctttag	ggaagcccct	ggctggatct	180
atgtttccta	tagcacctct	aggcactggg	aaggagcctg	gaggagagct	ctggcttcta	240
atgaccacg	tggcccccag	tgaaaaattt	ttttagaggc	tcccaaaga	agtctcatcc	300
agaccttaag	ggaaataaaa	tgaatgcacg	aaataaataa	ataatttaac	cacaactaaa	360
tttcatgttc	tttgggtgtg	ttcaaggatg	tctagaaaca	aaataatctg	attgcattat	420
acagtccatg	atgattcaat	tgcccaaata	gccaggaatt	gaagatttat	ctgctccttt	480
aacaataagg	actgaccctt	actggaatca	tttttttaaa	ttcaatatta	ttnaaatctt	540
gntgccaatc	aaatccgggg	tgataaggca	ttaanttaag	ggccncctt		589

<210> 8176

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8176

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atggtacacc	tatgaagcaa	gagttaaata	taaaccaggt	ctaatacctgt	acacttgtga	120
ttaattgtga	caatcttaag	ttgtctactt	ctttcccatt	taccaattca	gagaaagccc	180
gtttcctgtt	ttctcctcac	cactttgcct	tggcatcaca	ccaaccctgc	ctcgggcttc	240
agctgcagat	cctccccagc	ccctcctccc	agctgggctg	actccagtc	cagccccagt	300
ctccaccaac	tgagcagcgt	acgcagggtt	gtgcctggct	tccagcatct	accaccctt	360
cagagcaact	tccaacatgg	gacaggagag	gaagctcgca	ttgcttggtc	tgaacagatt	420
taaggagggt	ttatcacaag	gacctgaaaa	cttcctaagc	atgctttctn	cttgccagct	480
gaagaagggc	aatggtggga	accgggcaag	gggggttgca	agggccgnaa	gggctttttna	540
attangggnt	tnaattcnca	a				561

<210> 8177

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8177

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tctagattat	aatagtaaaa	aatcaagtta	cattcatatg	aaactttcat	aaaaagaaat	180
caaatccagt	tttatgaaat	tttatagtag	aattactttc	tagtgggtct	tttcttaggt	240



cacagtat	ttt	ataattccat	ttacatcttt	ataat	tttta	aaattagaaa	acaaaaggat	300
gtcaatagaa	atctaaat	ttcacttgcaa	aactcccttc	agtttccagg	ccagtaacac			360
atggtgatgt	cgacttg	tccagacatg	gacggctacc	aaagaccccc	agttcacgga			420
gcatgcaggc	ctctactcat	taggaacgct	ttttgggttt	ggctcacgtt	tcaagaaatt			480
gtggagcatg	tccatgccgt	caaagatccc	cangttcaag	gatangttcn	ggatttcant			540
tccaaccttn	ggatcattaa	nccttctttt	ttaaacnact	gggaaacc				588

<210> 8178

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8178

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gagtggggac	cctgcatgct	gccccctccc	cgcccccg	gtcttctggc	aggactgggg	120
aagggagcct	ctcaggggggt	ggcgggtccac	gcccagtagc	acctggggagc	tgtggggggc	180
gaggcagtc	gaaggtgtgg	ggtagctctg	agctcatgta	caggtccggt	accccgagcg	240
ccttgccggcg	ggagccagg	cccatcagta	atagtgc	cgccccagg	tgcccggtggc	300
cgtggggctg	ggccccagcg	tgctgtg	cagcaggtcc	ggctgcccgg	tgccgagat	360
ctcccgag	atccgttcgc	gctcctccag	ccgctgcgc	cgctccagct	cctccgcca	420
cgtgaagacc	ttgacgttga	ggggcccgtc	cggcttttgc	ggacagttcg	ggcccggnaa	480
cgtgtcntcg	gggccaaaccn	agtaaccggg	gcttcttgn	cttgnngn		528

<210> 8179

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8179

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ccaggatagg	tctttgttgg	ttctttcacc	gctgtacctg	tgtacaggac	agagcctggc	120
acacaccagg	tgccagtga	tatttgctga	aggaagtcac	aaatagggat	cagccatcat	180
tactttatca	tcatgatcaa	caggaaagac	cactgtcctc	acccaatccc	ctccaaaagg	240
ctttggagca	gatgtcaaca	ttaattcact	gtctcaggtg	acagctctca	tcctgaggcc	300
agggttgggg	ggagctggga	atggggcnag	agtggggcct	cacgtcccag	gctccttgat	360
acccccacc	ccaccagcc	aggaaacacc	acgaggcagc	caaggttaag	tagactcttg	420
ctgctttgtt	ataaatatat	tatgtacatc	caaaacatga	cattaaaata	ttactccgtg	480
tacagaaaag	atnnnnnnn					499

<210> 8180

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8180

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ctctttcctt	ggagactttc	accctccc	tctgggctag	actgaatgcc	cacaagacct	120
actgtgtggc	tgatgcgtgg	gatctccctt	tgcttccttc	ccgtgttgga	gcccattttc	180

tagatccttc	acttctctgt	tcttggtttg	cttcgtcatt	tggtggaata	cattcccagc	240
agctgcctga	gtggggaagc	aggggaaata	tccctacaca	ggcagttttt	cgaggatga	300
ctgaaaaatg	cctttattta	gccttacact	tgattgactg	tttggtctaa	tataggattt	360
tgtgttttaa	ataattttcc	atcagctttt	ggaagacact	acttcactgt	attgtggtat	420
tcaattgttg	ctactgaaaa	tctcaatacc	atctgattcc	tatttccttg	cattggaacc	480
taatttttct	cctcctggaa	catttttnaaa	atggctcttt	tttcccantg	ttttgaaaaa	540
aaaacttttt	atttngaaat	ccttagtttt	gnaanattcn	tatattcncc	ctaga	595

<210> 8181

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8181

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atgtgtcagt	ctgagcaacg	tgagaagtcc	cctcctgaag	atttcctttt	gcacggctgg	120
ctcagcactg	cgggtagctc	ggcattaaca	aaagcgaac	ggtggtcaga	ccttcacagg	180
gtcccaccct	cacgacgaca	ctggtctacg	tactccagac	aggcctcagt	tcttcttgct	240
gtccttctga	ggctcacttt	ttgtggtccc	taggttggtc	cacacctctg	tgtacattaa	300
ggtcccaatg	aagacaaaac	agggtgcccag	ccagtgccac	agggtgaagg	ggttctggaa	360
gtacaagatg	gaaaagatga	ggctcacaaa	tttgcttagg	gtcacgacga	gcgtgacggg	420
gagggaggcg	cattctgtgg	tgaggataaa	cacaccccg	atgcacactt	ctgagtgatg	480
atgtcatgan	gaggtngaac	cccttaatgg	caagggcact	tccatgaccg	gaatttntnt	540
acctnacctt	ttgaannaaa	c				561

<210> 8182

<211> 515

<212> DNA

<213> Homo sapiens

<400> 8182

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cccctgccct	tcttgggggc	ttccatccta	gacaagtgcc	agcggcccca	gttgatgcca	120
cgggcaggca	atgtgcatag	ccatggcacg	tgccatccct	gtggattcgg	atgcctcctc	180
ccctgctggg	gtgaggcagc	caaccagggg	ccaactgaaa	aaatgctgga	ctctcgggtca	240
aggacagggc	tgggagagtg	ccagtctcca	caaactgttg	atccactaga	gggttcaggc	300
ctggggcatc	ctctgcaaga	ggatcccacg	agagtccatt	ccccaccaca	ggcctccgct	360
gctcactgct	gtgccttgat	cggcctggac	gagcccggcc	acacctccat	cataccaggt	420
gtgaanaggg	gctggggacc	caccacttct	gagaacagca	tncttgggaa	aaccactgt	480
gaatgcncaa	nangnacaat	ccttaggccc	agtga			515

<210> 8183

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8183

cctcattctg	gtttttaatg	gtcaagggtga	caacagtgtga	cagtttttcc	agacccatat	60
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gtaggttcca	taatctccac	ctgctggaga	aaacaccgtg	acagatgcca	ttgccccagc	120
aggccactgc	cgggtgtgga	actttgggat	caaaagcacc	aagccaagtc	ccttgctcag	180
gatgggtctt	ggttgaaacc	acaagccctt	ntgcagttct	aggtggatgt	agtgttggtt	240
cttggtcat	tgcaggggtg	aagcaggaaa	gagaaagaga	ctggtgaggc	ctgcttgga	300
agaggattga	ggcacattac	gattccaaac	caggagatcc	tgagtcagca	ctgattctgt	360
ctctggtttg	tttaatacgg	gaaagggttc	catccaagag	ccaataggc	ctcctctccc	420
aaacctgcat	agcaatcaaa	cttatagggg	tggtggangg	tctttaccag	gctaggacta	480
ctgcctatgt	ttctgcaagt	cacaagttaa	ccaggtcaaa	agaacaatgt	gaaacanaac	540
ctggttaagc	aaagccnaat	tgtgaccttt	ctttcnt			577

<210> 8184

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8184

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ntcaatntaa	agcncagaag	tntagcttac	tcaggatgaa	tagattcatt	atcaggtcac	120
gttgcaaaaa	tnctaaaaat	atctcaattt	atatnctata	tagcncaata	aaaatcagcn	180
catgttcagg	atctcaanat	taatnggtat	ccataaaatn	gcctccctca	atcaacatgg	240
aaaacataag	tattgaattt	ataattncaa	tatgcattgg	tttcatattg	caactccaaa	300
aaactgtttg	aggctttatg	anaacagagg	ggtnttcana	gttttagtat	taatcgtatg	360
actttatctc	tcacttcggg	atcactgngc	tctgctaagt	cttggagttt	ctgaccaaac	420
tgttttgctt	cctggaatat	tgaaataagc	tcaaatttag	ngaacttttc	cttggnaaat	480
agctttgcct	ttgttttgaa	ctgaaaatta	tattctcaaa	ttttcaaaat	ttaaaaaatt	540
ggnctttgcc						550

<210> 8185

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8185

ggagtcttcc	catataaggc	acaaaagggt	ctttttgttt	tgctttgttt	taaagcttta	60
ataaattctt	ggaagattct	ggattgcttg	aaattatttt	tagattatgc	taaacatgga	120
gctgcattta	cacaaaagtt	cttaaaaatt	gtcccaaaaag	ctaatttttc	caagtggaaat	180
aactttagaa	ttgaacattt	ataagattcg	ctttatgttt	taaggagctc	taaaatctac	240
atcataatct	aagaagtctt	aattttgaac	tttaattcac	aacgatcttc	tacacgtgac	300
attatctcac	gtgtatcctg	taggctctct	gttacggtta	gctcactaga	aagtgcacta	360
agtgaagtta	gtgtttaatg	cagcattact	gtgaatttcc	tttagaaaact	cacttttatt	420
tgtctccagt	ctactttttc	atctatttgn	ttttggtttt	ttgnttttta	attttgagac	480
agagtctcat	tctgtcgccc	aagctggaat	gcaatggaat	gatctggctc	attgnnacct	540
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<210> 8186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8186  
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aactctttta ttaattcctt aggataaata cccagaaatt taacagctag ggcagacttc 180  
taatacaata ccgaaagtcc ttccaaaaaac caagtgggtg ccaacttatg tcccttagca 240  
ttataacatt cttgagccaa tagtgtaaaa atacgctgac aatttttatag gcaaacatta 300  
ctcaaggtat cttactttcc acttattact aaagtaatta acccctaaat agatgctcct 360  
caacagtggg actacatcct ggtaaaccta tcataagttg aaactatcaa gttgaaatgc 420  
atttagtacc cggataaacc tatcataaag ttgaaaattt gtaaatgaa cccagtgtaa 480  
atcagaggcc atcttacttc atactcatga agcactatag ngggatattt ttcacttacg 540  
agaaaaccta agcttggtgn aaaactggcc taat 574

<210> 8187  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 8187  
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aaaccagttt cacaactgcc tcaaatatga acattatagc aattacatgc aagtattata 180  
tttttttaaaa tccacatagt aacattatgt ttctcagagg ctgtcacatc ctccaaatat 240  
ttctacctaag agatagagtg aaggggttcc tctgctgtgt accaccagaa atatgactta 300  
ccatctaaac tggctggtct ccatgactgg ttctggtgct ttaagtttta atatcggtgtg 360  
gggaaaaaaaa cgaggtttta catccacagg acagtacga caatggagat tctttaacaa 420  
tatgccatcc catcgacccg gacacagctt ccagcctaaa ccagctagag aaaagcccgt 480  
ttctccacta aacatgacct tcagaaaatg tggtaaaga cttactgtcc aaccatggag 540  
actgagatct tantctggaa ctttgccatg tcccc 575

<210> 8188  
<211> 577  
<212> DNA  
<213> Homo sapiens

<400> 8188  
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tatttttgatt acttcaaaat ttaaaatctg cttgtttttc aattgatttt ttatcatgaca 120  
gatgctgagt tctgacccat ttttttcccc tgacagtatc aataggctgc ccgactacat 180  
gatacaattg ttttttagcat tttaaatttaa gactatggct cagtgtttga aaaataaata 240  
agttaacaaa agagaaacat tattaggagg aaaatgaaaa catattcacc acatgataaa 300  
aaaaatcact ccttaaaaaat caataagtgg tgtgagcatt atttcactta acctacttgg 360  
aagcactata ataccaatat acaataaaaa cagaacccat aggtagcctg gaatgatgca 420  
gtggccatca ctaattaggg gctagttagc aacataaata caaataaatg aaattcaaat 480  
taaaaaaaaaac ttgnttttag cttaattggg gggcanaatg tatggcgggg gctggntgct 540  
ggcaanccgt ttaactttgc tcgcttgntt gntcgaa 577

<210> 8189

09629469.072300

<211> 606  
<212> DNA  
<213> Homo sapiens

<400> 8189

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tgctttttaa	atgtagnnna	agagtcattt	actactctca	gaagtggcac	atacatggca	120
tagaaaacaa	tctatagtca	gttaactatt	aaaacagaaa	cttgaaattt	aagtgcacaa	180
catttgtagc	actccctaaa	gaaataggaa	ataaaaatgc	atttatccat	atgaacttga	240
ttattctgaa	ttactgacta	taaaaaggct	attgtgaaag	atatcacact	ttgaaacagc	300
aaatgaattt	tcaattttac	atttaattat	aagaccacaa	taaaaagttg	aacatgcgca	360
tatctatgca	tttcacagaa	gattagtaaa	actgatggca	acttcagaat	tatttcatga	420
agggtacaaa	cagtctttac	cacaattttc	ccatggncct	atccttcaaa	ataaaaaattc	480
nacacactat	caacttaaat	caagatttgc	tagtggatna	aattccatta	atttaccgnc	540
tntnttgga	cangctccaa	caatntgggt	ttgcaaaaat	ccatggttct	naaacttcgg	600
gcctat						606

<210> 8190  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 8190

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ggtaaggggg	aaaaaagaaa	gagaaaggaa	ggaccccaac	aacagtaaga	ctccttacca	120
tctacatctc	atctgtgttt	ctcttattat	aacccatgaa	atatctctac	ctgcagtgtc	180
tattacaaat	acaaatacca	tcctcactca	ttttcaacag	ctacctcact	aattcttaca	240
cacttgacaa	ctttagaact	ttgtccaatt	attattttggc	caatgcttga	aaatgattta	300
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agacaaggac	tactaccac	atcaacctgc	ctgtgacacc	tcacaactaa	gaaaccagtt	420
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atggncgtac	cacanttntt	cncctcc				566

<210> 8191  
<211> 597  
<212> DNA  
<213> Homo sapiens

<400> 8191

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ggtaagaaag	ccccttgctc	tctagtagcc	aggcagcatg	gacttacagt	cttaaaatga	180
ggctttatgt	atttcaggct	ggaggcagggt	tgcccttttct	cctgaggaat	ctcaggcagg	240
gtaaaagtta	cttaccactc	agtacctctg	tgccagaaga	aaagctcaat	ttattcaatc	300
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acaaccacat	agtccttatt	ctaattcgta	gtgaaaaggc	tgagggcata	tgggtgctcct	420
acgatggggc	tgaccctttc	ctaagcacat	ctcatttcca	catcctttgc	cttctctttc	480

cccaacattt ncagccagca ttgaacccaa tttctnggna attgagaagg ggaaacngtt 540  
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<210> 8192  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 8192  
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 tgctctgtaa attccaaata agtaaaataa tataaaaata cattttcata tctttataga 180  
 acaaaaacaa aacattaaat gcttttggat tttctttact cctcccacag atgagttcac 240  
 aaatacaaaa actgggtgtac atttatactc aagtacaaat ctccaacagc caagtaatta 300  
 tagttttcttc tgttatgtgc aaagtagatt atttcatatt tacttgggtat ggaaagcaga 360  
 gtacaggctc aatggacaat aatcattaaa cacagattat gtttaagaaa atgctgttgt 420  
 aaaaatgtca atagtacata caattttgggt aattatgcac ttcttttaaa gtaaatacag 480  
 cttttagata taaatctttc aaanggtttc tttgaaaanc tgtgangnga ctatttcaga 540  
 attgatgaac agtaatttgg cngnaacttn t 571

<210> 8193  
 <211> 577  
 <212> DNA  
 <213> Homo sapiens

<400> 8193  
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 ttatggattt taataaactg agcatgcatt catgaaactt aaaaaatatt aagaaatgca 180  
 ttgaaaaaag cagcgtaaaa aaagacaact catatagtta aataaaaatt acaaagggtc 240  
 tgagccaatt aatggtttgt aacaatgtca ttcaaaatgc ctttaggttt caataaaatc 300  
 cactgcttat ttctgcatgc ctagtccgtg aagaaactat ttgaagttgt ggggttaaata 360  
 atgatcagga attatcatgc caagttaatt ttacacctca aaaatacaag tgtgccatac 420  
 ttaaagggtt tcttattgnt gatgctggaa tgagttgctc ctacagtaaaa aatccagtca 480  
 actaacaaga atggcatgaa ataggatatg tacaattttc cnttcatata ccggctttan 540  
 natccngggt aattttgaat tttaaaaaaa agccttn 577

<210> 8194  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<400> 8194  
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 ctctctttgc cttgaaggta accatttccg gtcacttcac ataaaaattct gtgcctgcta 180  
 ccctggtatc tctttcactt cttataagga aaccagtcatt attgaatgag ggccccattc 240  
 taactgcctc attttaaaat cacctcttta aaaaaaccac atctctaaat accaccatta 300

09629469.072300

tcttgaggtc	ccagggatga	aagccttaat	gttaatgagt	ggatgggaca	tgtgacataa	360
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tcccacggac	tgagttggg	gattaaactg	gtccagttca	gatcatcagg	cattagatct	480
cataaggagt	gtgcaaccta	aatcccttgc	atgtgcngtt	cacaataaag	tcatgcctcc	540
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tc						602

<210> 8195

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8195

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acttttgag	gccgaggcgg	gcagatcacc	tgaggtcagg	agctcgagac	cagcctggcc	180
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tgctgtaat	cccagctact	taggagtctg	aggcaggaga	atcgcttgaa	cctggggaggc	300
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tcccttcccg	tccctgcagaa	gcaacccttc	aagacttctn	ccttactaaa	aagtcactct	480
tcttatagnc	ttattaataa	aacatgggtat	aattgctaaa	tgtacacatt	accccttaac	540
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<210> 8196

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8196

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ttgagtacaa	atccacagct	taacaatgtg	tttttaacag	caggagagca	tgcaactgct	180
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caaatataaa	atttaccata	tctaccctgt	agtgtggcac	tgcttaactg	ccaaatatac	300
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aagggaataa	taaaagtatc	atttcacgtg	tcttttaatc	ccatagaacng	ntttttggta	480
aanggattaa	ttatgtttaa	aaggaaaactg	atttgccaaa	tagaaaaccag	tttcagaacc	540
caagtggcct	cttggtanaa	tgtcaa				566

<210> 8197

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8197

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tctgcaggtc	gagcccttct	ctataacggt	cattacaaac	aaccctgaag	tggctggaat	120
atagtcagca	aggggcccac	atgaacagct	catctggaat	ctttgcaagt	acgtatttat	180
gtcctttggt	gccttgacac	gtaaggcact	gttaatgacg	taacagaata	gaggaaatgc	240
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gtgattgttt	ctttcatttt	attattatta	tttttttaca	ataagggtgt	agcctttata	360
ctccacacac	acaaaataaa	acaagtgcct	attacgaaaa	gagtccctgc	ccccaccccc	420
tagaacatcc	tgaacatagc	aattcaacag	aacagaaaaa	tcaagacgtt	tggatttcna	480
aaatttcaat	taaaaaacca	aaagtntgta	atgcaacagc	tgggtcaactt	tcaactttta	540
aataggcncc	atttaaccaa	aaaaccct				568

<210> 8198

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8198

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gattccttca	tttttgtctc	tcattttgtt	cgacatttaa	gtacagcata	gggatgttat	120
ttaattttaca	ttctcacact	ctaaaagaaa	tactattctg	aattaagtag	aaaaagaata	180
agcaagtgtg	gttactctgg	tacccattaa	tcacattttc	catatttttc	aaattttata	240
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tttgaggcac	aaacagggtg	tgtcacattg	gggcagtctg	cattgtaatc	aggggtccagt	360
gggatataca	ttttacatcg	gggcttaggc	cacctagtga	agtcacgttt	attgaaaatt	420
cctgagaaaag	ccacatgtgt	caaagtagag	cataccagga	aaaatataat	cttgtggggg	480
aaangcagcc	atttgatctc	atatnagact	cttctttgaa	aaggctggat	gaagggtggct	540
tgaaaatggc	cngctcttgn	cn				562

<210> 8199

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8199

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agacccccca	caggaagggt	cctaggtagg	gggaggttcc	tcctcccttg	aaaccctggg	180
ccactctgtc	aaggcaaagc	ctctgggccc	agcaccttgt	aaaggctttg	atgagaggag	240
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tcaaagcctg	tggctaggct	gcccgaagca	cgtgccgcag	ttcttctgga	gtgggagcag	360
ggggacagag	ctttgggtag	aggagggtca	cctgcaaagc	tggaatgcca	ggggagtggg	420
cggtgccttc	agctcctggg	ggccaagggt	tctcatacct	catgggcctg	aacctgggca	480
agggtctgga	atgcacataa	cccccaagca	gggaaggggc	aatgacagga	caaancnctc	540
atctgtccaa	aactgnn					557

<210> 8200

<211> 556

<212> DNA

<213> Homo sapiens

09629469.072800



<400> 8200

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gagataagct	gaattataaa	tacacaattt	tcagaacgac	aggcacttaa	agctcattaa	180
gtaaaataca	aaaatagatt	atattaataa	gaaatattta	gtgttcatca	aattgtaaat	240
ctaggctttt	gccatttttt	aaaaaggata	ctggaaactg	aaaagagatg	acattcatat	300
gaacaatgca	tttttcaaac	ttttgtttctg	agcgctgaac	aatctaagaa	attttagcgc	360
aatctaagaa	aaaagactta	ccacaaagca	cctaaaataa	cattgtagat	gggtgggaac	420
gctgtcaacc	atttcttaag	tttcccttcc	aagtctcagt	atcaaggcat	caagattcat	480
ttcacaacg	attgncagcc	ttcggaatca	ggtantgggc	ctgatgtcan	aaaccgttaa	540
aaccttagga	ggggct					556

<210> 8201

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8201

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agataattgt	ttcttaaatg	agttaaccac	aaccatataa	attgctagac	aattttaaac	180
agccatagat	aattttaaaa	tgtaaaatct	gtaggcaaaa	agcttttata	gttcacacat	240
tggtaaaaatt	aaaaccagtc	tttttttagta	ataaaactgg	atagtataat	cttactttta	300
tctataaaaa	caaaaaatac	ttaaatatac	atcattacaa	ggctcanatt	tgtagacaac	360
tttaaaaatat	tttttaattg	taacaatgtc	ttcaaaaattt	taccagtagt	gctgtgcaca	420
cagtaggtgg	tcattaaatg	ctgactgaca	tacagaagtg	tttctagtta	acagcaatcc	480
atattcattc	attcattccc	tattttataa	taaattttca	tagcngtgaa	aaaatgagan	540
gntactttct	taccatttta					560

<210> 8202

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8202

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ttttccaggt	tttgcttata	aatcaagatg	aggcagtata	taagagtcac	ggaaaaagac	180
agagaaaaaa	aacagacaaa	tcagttgtca	gtatccatgg	cctctgattc	tgtctcaacc	240
atgaaacaga	agtgttcaac	atatacctgc	taaaaagctt	aggaagatgt	aggctccaca	300
aaggaatgta	aacagcaacg	agatgtggaa	caacagcagg	cttttccatt	caaactttgt	360
catttgtttc	tttaagttca	agaaagacaa	aatctacact	gaaatccttg	tttgggtgagc	420
tcacaagctt	ttctccggtg	atttcttgta	actgtccagt	atagattttt	aacatactta	480
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cnttcttcac	acctttttta	aaaatatattt	t			571

<210> 8203

<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 8203  
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aaatagtgat ttctcaatt tgtttatagt cttatcacaa agtaggcaa agttcagtat 180  
taaataaata gatatacctaa taaaagtttg tacaagtctt cctaaggaat tacattcgta 240  
agactgttta ctttctgttt gacagcagtg acaggaacgt ggggattccc actcatgacg 300  
agtccctagc acttggtctc tagcaccac agcctaggcg cactgcatca cctgggtggg 360  
tgcagcctgg gcttctgcga gtgaggtttc ctcacctgga actctggttc catgtttgtg 420  
cttagcctgt gcgattctgg taaacacaga aaacctgcct gtccaccccc agtgctgaag 480  
actgactggt caangagggt ttagtgaaag tgttgggttc accatgtgga gaacangcng 540  
ngattaccgc catnttcttt gntgacttta 570

<210> 8204  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 8204  
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tatgccgctg gcatctcata aattcttatt gagaatggca caggtattaa aaaagtttct 180  
gggtagtcta cgagaaatgt caattattat ctctactaca actacttaca tatatcta 240  
gggaaaagag tggggccttag gtgtcagagt ggatgggaga caaaggagaa gctacactaa 300  
taaatacaac aagtgggaagg tacctgtccc attcctaata ggattttgtgg gcaatgctgg 360  
cacttggtgg ccaggagaat cttctgaccc cactctccct cctcttcagt cctgaagacc 420  
ccaagaaccc agttaggatc ccctggccag aggtctctgt gactgcctct ggactcagca 480  
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cagtgcacca accaggaagg cttggga 567

<210> 8205  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 8205  
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aatcactga agtcaaggtc taaagtcttt gagaagtcag atggaccgga cgcagtggct 120  
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gcagagattg cagtgagccg agattgtgca ctgactcca gcctgggtgt cagagtgaga 360  
ccccgcctca aaaaaaaaaa aaaaaaaaaa ggccgggtgc ggtggctcat gcctgtaatc 420  
tcagcacttt gggaggccaa aatgggccgg atcatgaagg tcaggagtgc naaaaccagc 480  
ctggccaata cngngngaac ccttgtntta ctaaaaattc caaantaacc cgggtgtgng 540

ggcatcc

547

<210> 8206

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8206

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tgcttgctgc	ccacagggat	aaagacattg	tatagagact	tgtacagtcc	atgatttggg	180
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gaaaatcggc	tacaatagta	gtcaaatgaa	catgtcattt	tggttcatta	ataaaaatac	300
tttcaaata	tttctaataa	aaccctaaac	ttgcaaacaa	ttctctcgga	atggccaat	360
caattgccct	atTTTTTaaa	atacattggg	atacaatcag	ctctgttttc	ttaaaagaaa	420
atgcagattc	aattgggtgg	gttgcatggg	cttttaaaga	attagcccat	taaatcttca	480
catttgaatg	attgaaatgc	cnttctgata	ccacgttagt	tttagaaatg	ccgaatccta	540
atn						543

<210> 8207

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8207

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tcgtggaaag	aggattctcc	catgcaaaac	ccggagccag	aggagaaggg	gaagcgccat	180
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gcgaccggac	gcggcggggc	ggagctgagt	ggcacagggg	gcgaggcttg	tagcagcgag	360
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aaaggggagg	gagcaacctt	ntncccgcat	gccggcccg	aaggaaagcc	ccggcccctt	480
tccgcggggg	aaaggacacc	cgtttttcaa	cngaaacttg	ttcaattaat	tnccaangtt	540
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<210> 8208

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8208

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cccttcattt	tcaaaacttac	taagtgttaa	caatacattt	gatagtgagc	agaatatgaa	180
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tgaacaagg	gctttcatga	ctggggaaaa	tcaaagcttt	tcttgaagg	agtgggcttt	300
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09629469.072800

aaaagcaaca	gctaatacag	ctaatagcatt	ataaataatg	tatttcataa	ctgaattaag	420
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ntncc						545

<210> 8209

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8209

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gccatgccc	gccagggcag	tcatttttat	gcacaacttt	ctgtggggct	caggtgcacc	180
tatgatacat	aaattttacag	ttcttgatcc	ccaaacagag	caggaggcag	ggtgcctggg	240
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tgcaactggg	cccgaatcaa	cttncgtggc	ctgctgtccc	cgggctcttg	gccccctaat	480
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<210> 8210

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8210

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tctntgcctg	gtcctgaagc	anacagcagc	aggctggccc	ancctccctt	ttatganact	240
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<210> 8211

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8211

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tgaacataat	tacatttgta	cacaaactaa	gtaccggatt	tgggaacctg	cttattgtctg	180
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tgaacaaaa	gcactgcagt	agctaaaatg	ggaagaaaaa	aagaaaacca	gcttcaatgg	480
aaataatact	aacttttagga	aaatgagaag	ccnaaaaatt	ttttntnaa	ttccccagac	540
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<210> 8212

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8212

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ccagtctttg	cataaaatat	cacagcttta	tctataacct	taaaattctg	cagcagccta	180
aagatatgga	taagatatata	caccacttgc	tattctgaaa	tatatctatt	accatatcca	240
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aaaaaaaagt	ttacctacca	tgttcatatt	aagaacaatg	tctatacaag	tcagttgtca	420
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<210> 8213

<211> 484

<212> DNA

<213> Homo sapiens

<400> 8213

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ggggcanana	gtcatccagc	aacccccctaa	taaagatata	actacaaact	gcgatcagng	180
cctttanaaa	aggaaagaat	gccctaaaaat	aagggtccct	ggcccaatct	acagggtcag	240
gcagggctta	cttaaggatg	ctgaaaagca	aaacgagcaa	gtggggaggt	aggggagtg	300
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gaggaattat	ttggggccatc	agtcaagtgg	agatgcccg	gtttggatac	atgaagctaa	420
gggaagaacc	cggagaaaga	naaggggcnn	aaagttaaga	aggaaaaccn	gccnantggg	480
gctn						484

<210> 8214

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8214

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ataatctaga	gaagccctgc	tccctctott	tttgagctac	ctataataac	attctgctga	180

gccaacatgg	agcagttctc	ctggcacatc	ctgcctgggg	aaaccgtggc	agtgactgtc	240
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aaggccctga	gtcaccacaa	cactgaaatt	gtttgagggtg	ctctggaccc	aggaaacact	360
gcctggccat	ggaacactct	agcggaggag	aggtgaggat	tacccttggc	catggagcac	420
tctggtggaa	gggagggtgac	ngattatccc	tggccatgga	gcactctatg	gaagggangt	480
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cccta						545

<210> 8215  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 8215	
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tcttctcctc	gcctttgtta
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<210> 8216  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400> 8216	
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cacagggcaa	gaatgggttg
agccagctnt	ggggtggggg
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gggaatccaa	tttcagcatg
agataaatga	gtagtcattc
aatggtcaag	gtcaaggttt
tccgattaag	ggaanggcc

<210> 8217  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 8217	
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	gagtcnata
	tgagtgacca
	tgccccatga
	cacagccctc
	60

09629469.072300

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cctccaacac	cattgtggaa	ataaaatttc	agtaaaggga	ccaccagttt	gacaacctgc	360
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ctttgagatg	gagtctccct	gtcaccagg	ctggantgca	atggcgcaat	ctcgntcac	480
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<210> 8218

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8218

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canatgctgc	tccttccctg	tgtgtggcca	gctgtacaca	gtgacatgct	cccaaggccg	180
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cacctgagg	ccctcatctc	tgctcggcag	ctaaaacatc	tccttcttcg	atgctctgca	300
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ggacaagtcc	gtgctgtaac	caagaccct	ggcaaagcct	tctcccaaaa	taaagtttga	420
ttttggcttc	ggcctcaatg	gctttggcca	aacttgctgc	gtaactgnnc	aaggacttgg	480
gnactttaac	ttttacatga	agaatcgagt	tcttgggaac	ttctttgaat	tggtccacct	540
tatccctnaa	anntanccaa					560

<210> 8219

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8219

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tacaggtgca	cgatcatcatg	cctggctaata	ttttgtatct	gttgtagaga	cggggttttg	180
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ccacaaagt	ccgggactac	aggcgtgagc	cactgcaccc	agcaggggtt	gaacttttca	300
agccaattgc	ggaaacatgc	cctatcggcc	ccagccccac	ctaactcttg	ctgaattctc	360
ctctcttcag	acttgaaact	ccacatgtcc	ttgaatgtct	gganaaaccc	tgggacgtgc	420
cgntattcat	gggtagctct	ggtcaatggc	accggtnggt	ctttgaactt	cttancgatg	480
canaacaaaa	accccgtttg	ggtataaaaa	acatccatna	acaagttggc	accnngncct	540
tgggttga						548

<210> 8220

<211> 565

<212> DNA

<213> Homo sapiens

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<400> 8220

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aaaatgggtcc	agggtggggcc	ctaggagat	cggaattctg	tcccagctga	agtctgcca	300
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cactgtgcgc	gacgccacgg	tttccttacg	cactcggcat	tatgtacaga	tatgaaaaaa	420
cccaacggca	ggtggctgga	aagtggcttc	tagctnccct	atgctggctt	ggcacgttat	480
gcatgccaaag	ccangaaggt	ttgcnggctt	tacccaacag	gtaatttngc	aaaaaagngaa	540
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<210> 8221

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8221

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aagacaacag	aaacaaatcc	acagattact	ccacctttac	ccccactttc	agctgaaagg	180
ttttaagaaa	aatctigcag	gttatgagga	ccagatggag	cttaaaaaaca	gatccggaac	240
tttttttttg	aaattttatt	tacttttttt	ttttgtatct	caagaatact	taaaggaaaa	300
aaaaaagggt	tctatgagcc	agaggaattc	ccaattcact	ttgaaattac	catacctatc	360
ttgccatata	aaacattttca	attctgttaa	ctaaatgaac	tacataatat	ccttaaaaaat	420
cagccagaga	agagaaaaaac	aaatctcgct	tcattattga	ctttgaccca	aacttattct	480
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<210> 8222

<211> 529

<212> DNA

<213> Homo sapiens

<400> 8222

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tacaggcacg	cgccaccacg	cccagcta	ttttgtattt	ttagtagaga	tggggttttca	180
ccatgttgac	caggatggtc	tcgatctctt	gacctgtga	tctgcctgcc	tcagcctccc	240
aaaatgttgg	gattacaggc	atgagccacc	gcgcctggcc	cactagctct	agtttttata	300
acacattgtc	acctcagata	ttcataaagg	ttagatgttg	caaaataata	aactctgtcc	360
acaataaaca	caggcacttt	actaaaaatg	ctcatataga	cctgtgggta	tcactataaaa	420
ccatcttcta	gaaatggaga	tactagcaaa	gagcctttcc	tttgccttct	cttctcctnt	480
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<210> 8223

<211> 524

<212> DNA



<213> Homo sapiens

<400> 8223

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tgaactcctg	aattcaagta	atcaacctgt	cttggcctcc	caaagtgatg	ggattacagg	180
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cacactttaa	atagactata	gtgtagtgtg	aacatagctt	ctttttttta	atagagacag	300
gatctcccta	tatgccccagg	ttgatctcac	aattcctggg	ctcaagtgac	cctnccgcct	360
ncgctcctaa	agtactggga	ttataggcat	gagccatcac	accagccaa	tataacttca	420
tattcacaag	gaaacaaaac	aatttggggg	gactcacttg	tagcaatatc	cngcttaatt	480
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<210> 8224

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8224

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taacaataca	taaaataatt	ctaattggct	aacagtattt	cattccattt	ctgacagaga	180
tgctcaagca	ctgaattgtc	ttaagaaaac	aagtaagggt	ttgtcaccta	tcctatttct	240
cactgcaagt	tgaaaaaaat	caaatccaaa	caccaccacc	ccttctatga	caacaaacgg	300
ctgtggaggt	aaatgactat	gtgggcaaag	agttgatgaa	aatcatgagc	ttaggggctt	360
tatgaaactt	tgggaaatca	aactcagagg	ttgntttcca	ttcttaaagt	aatgaagctc	420
taagttaaag	tttcagaatc	atcacataac	tggtcctatt	ccatactcat	ttcttttttt	480
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<210> 8225

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8225

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aaacaaccac	tgcattatta	tttttacata	taaagccaca	ttaagaagtg	gatactgaat	180
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caccaatggg	actgcttctt	aacacccctc	aggaattatg	aattctgagg	ttaaatggtc	300
atatcatgat	cagaataata	aaaaaagata	gcaaaaatgt	taaaacaagt	atagagcatt	360
caggaacagt	gaggggaaaa	gccatttctg	nttccgtcta	aatgcagacc	tottcatgaa	420
atatttttgn	ggaagttctt	aagcctggna	tgaatnacat	gcntataccc	tgcccagatg	480
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<210> 8226

<211> 536

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 8226

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aataacaata	cagtacaata	tgatcgtgct	actttcatgg	ctaggaatga	agttgttggg	180
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aaccaggcgg	aacatccact	aagaatcttc	cacataacca	gaccccagga	gcttgcctat	300
tgcccatacc	agagaggccc	atttggaaat	acaccatctg	gtctcttgag	cacagacctg	360
gagtgtggga	ttcagcttgg	ctggctccaa	agctggcccc	tactggatca	agctgagatc	420
cccagcctgc	acaggctgga	ttccactggc	caacacgtng	gccccatggt	gggtcctggc	480
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<210> 8227

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8227

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atctgcaaag	atgatagttt	ttacatatgt	cctgttacct	acaccaatat	aattactaca	180
ttatcttata	aagacaaaaca	gttgccttcaa	actctttaaa	aaatatatat	ataatgagtt	240
tcccaaagac	tcgagtctat	attcaaagat	gagtaaaaaa	aatccattac	ttccctaggg	300
tcactttctt	cctttactcc	tgcttaaatg	caaaaagctga	tagtttctga	tttgtagaaa	360
aatctaaagg	tttctgcttt	ttagacaaat	tcaggttctt	ttttgctttt	tcttcctggn	420
tttctgnntc	atcactttca	tcaaccacac	gttttcgctt	ctttgcttca	gttccttcac	480
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<210> 8228

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8228

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agaaaagtaa	aaatatgcac	taacaaggca	gagaagacgt	tacaaggat	ttgatgctga	180
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tcttacggnt	tctgagccca	cagtacaatc	tgngatgacc	ncacaagttg	gtctggttaa	480
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<210> 8229

<211> 514

<212> DNA

09629459.072300

<213> Homo sapiens

<400> 8229

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ggggtacaga	aaggaataat	taagacggcc	tgctcttgag	ctcacagtct	agtaaggaag	120
gtaaacataa	acaaatcatt	acaatacaac	aggaaaagag	ctagagcgga	gatatagaac	180
aattgcacag	aggaaagagt	aactaattct	gcctgaaggt	aacaaggaag	agatggcact	240
tgattttgaa	gtttaaggat	gagtgatatt	ttagcacggc	agagggcaga	gggggcacag	300
ggcattccag	gcagagggaa	tagcatgtgc	aaaggcactg	aggtaaaaac	atgagcatgg	360
ttggttcaaa	gaatgggtgt	gaagggtaca	cagaggcggg	ctgtaaaggg	tcttgtcacc	420
acactnggaa	gtttgnatit	tatcctgtan	gccatgggaa	agntttaagn	ccacattttt	480
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<210> 8230

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8230

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atagacatgc	tatatagaac	aatgaatga	gtaatgtaaa	taacttaaaa	ttgagagaaa	180
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cctgggtatg	agaaaaagta	tgggcagagg	gcagtgttga	gtttttgtat	ctgtaactta	300
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aaaatgaatg	caattttaaat	gtggctagaa	ttgactagca	aggcctagat	ctttaagtaa	480
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<210> 8231

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8231

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agtatgtctt	taggttcata	ggctgctcaa	cacattttaa	gcgtatagca	aatgaagtca	180
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gtattataga	caaccagaat	aaaatcaatt	cccgtgttta	ctattttcca	ttttcaatat	420
gagcatttga	aatgttaata	tgagatcaat	ttcactattt	aaactcacat	tacatatctg	480
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<210> 8232

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8232

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aatatgggtg aagctcatgt tccattacct gtaaagggtc aatgcaacag aaaaatggtc  360
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agacttatac acatatTTTA aaaaatcaaa catgggaatt tctatatata tcaaaccctt  480
taaccaatgg tctgggctct ggaattgnta ttataggtgn tcnaaaattt tccaaacnaa  540
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<210> 8233

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8233

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tccactgggt ctagtgggga ctctgacgcc gaacaggggc tgtagatcag tgagtgtgta  180
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ggaagatact ctggggaacc cgggacnatg tcgtacgttg ggtagctgtg tggacaagtg  480
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<210> 8234

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8234

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  180
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<210> 8235

<211> 538  
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<213> Homo sapiens

<400> 8235  
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aaaactgcag ggctaaaact tgctcaacaa tgaactaggg accactatgg cttaatgaac 180  
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cttcaccttg gtgaaggcac cctgaaggct cctggttctg aagacttgat gnctgcattg 480  
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<210> 8236  
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<212> DNA  
<213> Homo sapiens

<400> 8236  
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ccttacatac tccactcatg cccctttccc atcaccagcc tctccctccc tttgaaaagt 180  
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ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggggag atccacaatt 180  
aatcgtcgca gttctcttaa aagtattaac acttaaataa gcaactcttg ggagttgcaa 240  
aggatattca ggatgggatg cagtgggagg ctacccctca tccaaggtac aggcctggaat 300  
gagctacagc tggctctatc tgggcctcag aaggatgaaga gggaccgtat tctggggctt 360  
agtgtgggtg gggcatatcc tccccaaaact tgttctggtg ggcgatgttc ttcacatcta 420  
ggaaagcctg gtggtggaca taggcctgac agtagtaaca ccaggctgac aggtcgatgt 480  
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tgtacnacc cagtagactt 560

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<212> DNA  
<213> Homo sapiens

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ctaaggaaaa tttccatgtt gaaacacttc tggggccagg tgtgatagct cagcctgtg 180  
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gaaccgagac tctgtctcaa aaaaagaaaa aaattaccgc gcatgctggc acatgcctgt 480  
aatccagctc ttcaggaagc tnangcagga aaaaccntg acccccgana tggaagggtc 540  
aatgagccaa ggtn 554

<210> 8239  
<211> 554  
<212> DNA  
<213> Homo sapiens

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gagcagctgg ttggaggagg ccagggccag gcccacctc ctctcgggac caggagactg 180  
gcagccgctg tgttcacctg ggcagggtg caccagctca cccccactgg attatgggtc 240  
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ctcaccacca agcctgtatg cttagctctg actctctttg gacaataaaa taaagtgc 420  
tactgaacaa agagtaactn aaaaccagaa tcagacaaat cgccnatgct ttttccttta 480  
cttaaagacc aaagaaacat gaatgatgtg aatgcccgga acttnagagt aagggaatc 540  
ttgtggagga caac 554

<210> 8240  
<211> 551  
<212> DNA  
<213> Homo sapiens

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ataatatgta tttttccatg agcttcttga agaccacttg tactagaaaa ctgtattcaa 120  
gaggatatat aaaaggattg tagatatgca agtgccattt acttctggca tgcaaggatg 180  
gttcaacata ttcaagcaaa tcaatgtgat ataccacttg aacagaatga aagatgaaaa 240  
ccacatcatc tcaacagatg gagaaaaatc atttcacaaa attcagcatc tgatcatcat 300  
agaaatctta aacaaaatag atggagaagg aaatttacct caccaataga aagaccattg 360  
atgaaatgac caatgtggag ataaccaagc agggaaaata gaatcctttt cccgtaggat 420

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ctcacatgat	gcaagaacgt	tctcactttt	tctattcaat	aaatactgga	agtcctagcc	480
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 <211> 555  
 <212> DNA  
 <213> Homo sapiens

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ggcttgggtt	tcttttaggtt tatcctgtct ggggctcatg gaacctcttc aaacttaagt 180
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catcacactt	tctccttttc ttccaggata ctgagggtcat gaatgttagc catttggtat 300
cataacactg	ctccccaagg ctgttgccaca tatgctgaat aatttaagat tatagtctac 360
acttctgaat	tttaggttat gacactcttg ggtctgtcaa gtcccacggg tgatggagat 420
actggttcat	caggcgaagt nacctantca gggttcangag gcaagttcta ttggaaacca 480
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 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 8242	
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aggcaaacc	tgcactactt cagtcacaac ccaatagtta acatgattct gaagaacagt 120
cttatctgca	atatctaccc acttctaaac aaacacatct atagaaatcc atgtacatat 180
atattagttt	tcaacaagtc aggattttca acaactctaa aatttcaatt ttatattctg 240
aacacacttc	aaaatttatcc acttgatgca ggatataacc ataggagat aaaaattcat 300
gcaatgatac	tcagggtttt tttttttaa ggtaaatcca atatttgatc attcaatgct 360
acataaagt	g cattgaatat cgaaaataaa acaagcgcca attttatcat taattaataa 420
cacatttatt	atcttgaaac caaactggcc caagttactt tttggctttt tgagtcaact 480
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<210> 8243  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

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tgggggctcc	atttcttcc tgccaccat tcagcctggg ccagaagttg ccaactggcaa 240
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aatactttga	agttaattgt	caacatataa	cctttgggaa	attaaacaaa	aaacttgatt	360
cccattttct	taaaaggcct	gtgttccctc	tcacagcgaa	agcaggggag	cagccacttc	420
ctttagaaca	ggtagctagcc	cctattcaga	tagcttggnt	cttctttaaa	ctgggctcaa	480
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<210> 8244

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8244

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cccaaattgca	tgattctcca	atatgaaagg	tggtcagcat	aagcatacaa	tcatttagta	120
aaactgctct	ttatgagacc	cccagaaaag	ctggaggcac	ttcctctttt	tggtggagag	180
agaagacact	acttaactgg	ccatttcctt	gctggagttt	attccgattc	ccttttgtct	240
gattcttcc	cctcaaactc	gactaaagga	gtgtgtctgt	tggcctgagc	accttctctg	300
tagaacactt	tcctttactgt	gccatccctt	ggagacttta	tggtatgctc	catcttcatg	360
gcgatcataa	ccatgaggga	atctcccgt	ttcactttgt	ctccagcttt	gacaaacacc	420
ttttcaatgg	tccagtcata	ggagctaaa	ggcccgcctg	agtttcttgg	gagctcacng	480
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<210> 8245

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8245

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aggcaggtga	cctgtacaaa	gtattagtga	taacacaaca	ttcagcttcc	taagagttaa	120
aacgtgctgc	ttacatgaag	ggagatgata	ctgagctaag	aagtcctggt	atagagaagc	180
agagagacca	acctacttca	tattatttat	aaaatagaga	atattctcag	ctaacatgct	240
gggagaaaaa	attcttccaa	aaaggcagaa	ttacaatcaa	tgccaagatt	tacaaattcc	300
atcatgttta	aatataagga	caaaaataaa	catttcttat	ttaaaaaaaa	cccacaaatt	360
tccccaacta	tagcttatct	gtagcactt	ctttatcagt	ctgactattc	tttaaaggcc	420
ttaaaacatg	aatttgggat	taaaacnaat	taaagtgcc	aaggtttaag	aagccntatg	480
gtnacctaag	gaggtaacna	tataattttt	aganccatca	tgg		523

<210> 8246

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8246

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cacacatgtg	tacatggaaa	gatacaaaat	aatacaatgc	caaagaaagg	aactcaaaat	180
atgataagac	agaacttgag	ctagatcttt	tgaaaagtta	ggatttagat	aagttgagaa	240
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<210> 8250  
<211> 544  
<212> DNA  
<213> Homo sapiens

<210> 8251  
<211> 537  
<212> DNA  
<213> Homo sapiens

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<210> 8252
<211> 151
<212> DNA
<213> Homo sapiens
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tacatgttta tggggactcc taacacaggg ctccctcttt ttctactagg agtttcactt   120
acagctgaca atctatgggg gcggnnnnnn n                               151
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<210> 8253  
<211> 537  
<212> DNA  
<213> Homo sapiens

<400> 8253  
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tacgttcttc tttcttaaaa cttaaaaagct agtagtatat tttataagca tttctccaga 120  
ttttgatttc acaatccaca ataaaaagac tgtttaaaag aacttatttg tagaaattct 180  
aaagttgtgc atttacttga aaagttactt tcacaaaggg tttttcaata tttcatctta 240  
gttgataat taaacagaat aaatggaaga attacacata aaatactatt caactagcca 300  
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acattttcta ctggataata taacagtaac agaaaagcat gtgttggtca aaaaagatac 420  
tatngaattg ccaggcttat tgnatatttg gnggtcccat gngtaacact gngtacatcc 480  
tcaattttan gggcctttaa aatggtttgg ttttgaaacc ttggttacnt aacgatt 537

<210> 8254  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 8254  
aatctcattt cattaccagg ccttgcgtga atgccatgtt gcttttgaaa aaaaaaccaa 60  
aaaagaaagt cttggtaggg aggggctttg ggaaggacca tgagagagag acagtgagaa 120  
agacagattg atttatggag ctccatgact agatgctgat tttccaccag aggtcaaaag 180  
gccaccccac tgtgccaatc tcctctttct ccttctctcc tcgggcagat gagcctggta 240  
gcccctggca gtgatgatgt gggaaccacc tccacaggga atcactaggg gaattctcat 300  
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ggaatgtctg ggggctgatg ctgctacagg gcctgcanag ggtgttactg gcattgatgc 420  
caggggccag gattgctgga tttcctacaa gggtaggaca tgttcaatga caaaatattg 480  
gcctcctaata ggcaaatgcc ntaattaana agcctttgca atgccggaca agcttacaaa 540  
gg 542

<210> 8255  
<211> 542  
<212> DNA  
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<400> 8255  
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gtttaaatta catctgttac aggaatcaac ccctgcatac atcacactca agtcaaagcc 180  
tgaaaagctg aggaagcaat cccaacagcc cagaggaacg tcctaaatat caatgtaaag 240  
aaataagaaa tcttaagttg aaaatcataa aaaataacta actgagtgc aattactcat 300  
ctgactcagt ctactctta cctcaaccaag tactttttgt catttctacc tctcctttta 360  
agccaaatat taaagcttat ttatggaaat tatttaccat gccacccttg cgggaactgc 420  
tttactggac tatttgcagt aggactatgt ctgnagcacc ctganggtan ggattcagac 480  
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09629469.072800

tt

542

<210> 8256  
<211> 380  
<212> DNA  
<213> Homo sapiens

<400> 8256  
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ctgacaagca cagagacaga ttaggtgtca ggatattatt tatagagccc ttggccttta 120  
tatccctgaa tcagtcattt gacacccagt tcttgatttc agttccaaag ttatttcaac 180  
cactctnalc atnaanccat tctgaaaggg anaaagggtt tnttaaaaat gatcatggag 240  
aanaagtaga aaaaaatgac ctctggagtt ggacaaagct ggntccaaat cctgcaattn 300  
ccncttacta gctgnttaac tctgaaaaag cttttaagtt ttnggagggt cantatccct 360  
ttttttttaa aatggngatc 380

<210> 8257  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 8257  
gttgtttgcc tttttatttg gccaaatcca tagcgactat aactaaacca aaacatgagc 60  
taagtaaattg aaaactactt tcttctggag gtttattttg gataaaatag ttgaagacag 120  
actacaatga gacattgtta aataagacta gaaaataatt taagagcgta ttttaagcac 180  
gggattccga cacactcata aacgtgtttg ctcccagctc ttacaaaaga aaataagggt 240  
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cagtgcacaaa aatttcccac acctatatag ggttaaccat agttttcagc aaagcaacaa 420  
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gccaaaccag gaaataacag cancctttaa cgaagcccgc caccaacggn tctt 534

<210> 8258  
<211> 540  
<212> DNA  
<213> Homo sapiens

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ccctgcccc aatccctctt aagggtatgt tatacacttg gtcactgggg cccttcccaa 180  
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acngctagga aaccaggaag anggaagaag gggccaggaa tctttcgaaa atataaggcg 480  
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<210> 8259  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 8259  
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caaagaacac ttggtaaaac cctctggcta aaaaatcaaa atttccaaag catatacatt 240  
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aactggagga agaaaaaccc agaaaaacata aggactggg caaatgtgac gtaggctggg 420  
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aaagggaagc ttt 553

<210> 8260  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 8260  
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ctgggaccgc cgcaccctc ccctgcctcc ctccctgggt caccaccctc angcggtgc 420  
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cacaatgtnc tgggccngg aaggcnatgg gtactcna 518

<210> 8261  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 8261  
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gctataactt tccacaggaa aacctggtt caattcatgc cgaattgttc aaagaaaaga 240  
aaaagctaaa tcagttagag acaacacatg gactggcttt tgtcctatta gagagccaga 300  
ctgaagctgt attcagcctc acatttagag actgtttcct attacaattt atatctctat 360  
ttgcctaaga gatacctaaa gtgaaaaaca aaaaaatgtt aactgactgg ggcattttgt 420  
gggctaagta gatttggcag angagagaaa tgaataataa tcattaatta ttctaataca 480  
gaggattnat gtcagnctgg tcatctggan taacccttga cgtttggtgg tt 532

<210> 8262  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 8262  
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aaaccctt 548

<210> 8263  
<211> 546  
<212> DNA  
<213> Homo sapiens

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<210> 8264  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8264  
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acggtaatga agatcagcat gaattttata agagttgatg ggagttcaat gaacaggatt 180  
taacacattt tacaacccaa atcaaagttg aataatacat ccaattcccc taaatttatc 240  
tatgcgttga gactgaaatg cacattatc cccacaaact cctcccccta cccattccc 300  
aatcaattac cttacctata aaaccttcca tttaaccttt taagtcagat ttgatgggta 360  
aacatgtaat ctacagtata ctctccatta ttatttcagg atagacacac atatagtcag 420

atgctgaatc	ttcattacat	tcctttcaaa	angcatctaa	actggtgcaa	ttgnctatga	480
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<210> 8265

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8265

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tctggtgaaa	tttctgatga	tcagggaatca	agactcagta	gccctaaagg	aagagagttt	180
tgtatccaat	atcctcaaaa	ccaagacata	gtatatatta	ctttcaaagt	aaactataaa	240
cattttacca	tatccttcaa	tcataaaagc	atctcactgt	gaaatgatcc	atgttgactc	300
tgcataattc	tcagaagtca	cttcaagtga	tgagggacta	actataaaac	atgcattatt	360
tgaagtacat	gagcatgaaa	catcgaagtc	tacaacttat	cttaaaagaa	agagtaagtt	420
ccaccagctt	tttatttggt	gaataacnag	aacacacaaa	accaggcaga	gaagtncgca	480
aggnaatgga	tgatcatatt	tcactggttt	ttggnctttt	ggnccttcat	ctttcaagcn	540
cttccgggnt	t					551

<210> 8266

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8266

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aaatctttct	cacaatccac	ttctctttct	cttcctaata	tgcatggttc	caggttagag	180
ttggccaaaa	gaggagcttg	ttcaggattt	tgaagacaga	agtaaagcag	tggccattac	240
tctcagcagg	tcgtttactc	tgcatccagc	ccatactctt	gaatgctgac	ctactgacca	300
agcaaattct	catccatggc	cccagagatt	caatagctac	acagaggcat	cccatagccc	360
cctagaggag	ctcctccttt	gctttccatt	caatcccaga	gctgtgggat	tctcctgcat	420
ttctttttta	cttctctagt	aaaatgtaat	cagccttttc	tnagcatat	tccatcaatc	480
actgncaaag	aacatgaact	tcacattaaa	gaccttaaaa	ggggcctccn	tttttttagcc	540
aaaaaangga	ccnggttncc	g				561

<210> 8267

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8267

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cataaacgtg	tttgcctcca	gctottacaa	aagaaaataa	ggtttttctc	catcaaaaaac	180
aaccagtta	caccagtaaa	tcttcccagt	tctgaaaatc	tgaagcaact	gatactccat	240

taa	atgtgga	aac	actgtct	act	caaaaata	ttt	gtaatat	tat	gcagtga	caaaaatttc	300
cc	acacctat	at	agggttaa	cc	atagtttt	cag	caaagca	aca	agtgcct	tacttatttt	360
gt	ctttttca	gtt	tatacag	ag	ctccaatt	tca	tgaacc	ata	ctgtgcc	aaaccaggaa	420
ata	aacagca	ac	actctagc	ga	agccacgc	cac	caaacng	nt	actatctn	ctgncctttt	480
acc	agctttt	ct	ntttccag	ac	aggcaggg	ctt	gggcctt	ata	tcaacac	gggttattcg	540
ctt	cctttnt	ttc									553

<210> 8268

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8268

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tt	atgaaatt	tc	attttatt	ct	gataaaga	ct	aatatatg	ctt	gataacc	tag	tgataat	180
cc	ataagttt	ggt	attttcac	aac	atttttt	aga	aagcaca	ta	agattaac	att	caaataa	240
gg	cattatag	aa	gtttttat	aa	agaatgaa	gt	gtttccta	ta	ttttcttt	aaaa	acctt	300
ggt	tcattctt	gaa	agatcga	tga	atttttt	aa	atatcaga	aga	aaaaggga	aata	aaaattt	360
tcc	cccaaaa	ac	acataaga	acc	acttact	gg	cacttgta	ttt	taagtcc	tggg	aaaaaaa	420
ac	ggaacaga	ttt	tttaaagg	ca	ataacgac	tt	gtaagacn	gct	tgnttca	ttt	gatttgg	480
cac	gaagtaa	ag	tnagagtn	aat	atgccnt	ggn	agacata	at	ccaggttt	tc	ctcatctn	540
tc	atatt											547

<210> 8269

<211> 439

<212> DNA

<213> Homo sapiens

<400> 8269

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tgc	ggccggc	cacc	agccta	agg	atgtccc	cg	atcttctt	ct	gccagttg	gc	gatgtcct	180
tgg	acacggc	gc	accacagc	tccc	atgcc	gag	gtctgc	act	ctcacag	cg	cttcctca	240
cct	cctcctg	ct	gtctctca	gt	gccatgct	gc	agctcaaa	ctt	gtagaag	aag	gcccagg	300
cat	ccccag	gt	ccgagtca	at	cttcacag	tg	cgttgga	cc	actccctg	gc	cttggtga	360
tct	tccngtg	act	ccaaaac	ag	cttggcca	cgg	ccaggan	ca	catggggg	tc	atgctcac	420
act	ntttnan	ggn	atncac									439

<210> 8270

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8270

cag	aaattga	at	agtttttt	att	tgtttgg	gt	caatctca	gt	actactag	aact	caaaaat	60
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tg	attctgaa	aag	aattaac	aaa	accctgt	tac	taggtgc	ct	gaccttag	at	attacaac	180



tgtttcattt	acaaaacctc	cactacaaaa	cactaagctt	gcaacaaaaac	aacaaaatga	240
aagccacata	atttgagtaa	cacaatagta	catattcttc	agctgatgag	agtaataggg	300
aaatgtatat	acttcctaca	caaatgcatc	tagggaaaagc	aggctatatt	tattcaagaa	360
ctagaaaaag	gttacaatat	aaatctatca	aacaaaattc	atttttgnta	tattcaagta	420
actcatatat	attcaaattt	agaccaaaatc	aaggacaaca	atccaatcnc	aggattatta	480
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<210> 8271

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8271

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ggttgattta	aaaacttttc	caagaagaag	aaaagcatgg	agtcgtaatt	taaagaactc	180
aataaaaact	tctatttttt	attttaaaat	aatatacaca	gtgttatttt	cttcaagacc	240
gtcctgtgga	tgtgaaatcc	gtcttcgcgt	catgtatctc	ccatatccag	cagttcagcc	300
atccagctac	ctttgggacc	ctgctgcacc	ttgtgtttgc	tggggagtca	ctggagagtg	360
catctctgtt	cagtttcagg	gcacgtctca	cacatttgct	gntccttatt	cattgggtgac	420
acaggggata	ggtgatccac	tacttgctgt	agaatgtcct	tactttcact	aggangcaga	480
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tnc						543

<210> 8272

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8272

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aaaagtaaaa	gggaggtaac	tactaaacgg	attaaagaag	aaaattctac	tttttaagac	180
attttaacca	gacagaaagt	gagaaattac	taatttaagt	aaacactaaa	aacttttact	240
gaagctggag	accttatact	attttagatc	aaaccttcat	ctacacagct	ttaaataaac	300
tttaaaaaat	cttttctagt	acatataaga	ctgctaaaaa	gagtgcattga	ctgggggaaa	360
aaaggcatat	gctagaatgt	gaactcctga	agaacagaaa	tacatttcat	tcattctttat	420
ccctggattc	ctaacacaat	gcctgggtca	aactaaaatg	cttaaacacac	gtttgctgct	480
tgaagtgnac	tggggcnaat	acatctttcc	actttgggcc	agtttccttc	n	531

<210> 8273

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8273

aacaagaccc	aactatatgt	ttattagaga	agaaccagca	aatatatattga	caaatatgtt	60
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09629469.072800

gaaagaaaat	gggtggaaaa	atacaccatg	caaacagtag	acatcaaaaag	gctagactgg	120
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gagaatttta	tattgtatga	aattttatgt	tctgtcaatt	atatcacaat	aagaaatgta	240
ttatcaattt	cattactcca	taatgataaa	agnctaang	tcaaggacaa	cacancagtc	300
gaaatttgta	tgcatccaat	atatgaagca	aaaatacatg	aagcaagtaa	ctgacagaat	360
gaaagtgcag	aagagatagt	tccacaaaac	tactgcaaaa	tattaacatc	tntacctagc	420
agntactaga	acanttagac	cagaaaaatga	ntaaagacnt	nnaag		465

<210> 8274

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8274

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cagtaataac	gttcacatgg	ctactccaag	catccagtga	tggcaaccaa	acgagatgca	180
gttaccacag	agcagtagtc	tgacttttga	taatcaggaa	taaagaaccc	agtgggtgaag	240
gtgctgggtc	actgcctcaa	tgtgggggtac	cttggaacct	gcctgccaaa	cacagggtcaa	300
ggtggaacat	acatcctcct	ggggaacggc	tggtcaacca	gtcatgtcta	ggagttgaga	360
gttctactgt	gggaagaggt	ggcaacagct	gataacacaa	agcactgtgt	agaccaaagt	420
gaaagtcacc	atcaattgct	ggttctaatt	cangtgactt	ctgggtatatt	atgggaccng	480
ntngaccaaa	acnggtngtt	aaagcttgaa	agatttaata	ngcct		525

<210> 8275

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8275

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ccaagcaa	gttaaattct	cctgagggaa	aggggtacag	ttaaacatta	aattctcaaa	120
ataccactga	gctcagagag	gtgattgcag	gtccctctga	ggcaggctac	acccacagct	180
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acggtgatgc	ccactggggc	acagaggaag	ggtgccctc	gctgggaggg	ccaaggaagg	300
ctaccggagg	ggcaagtcca	gcccacagc	gtcacatcat	gggatcacag	cagagttcag	360
acagaacaac	ttaaaactct	gcaaaagaca	ctttaaaaac	atgatctctt	gaaaaaataa	420
atcgcaacaa	ttttcaactt	catgccaatc	ganggcngaa	gantgtgaat	aatgnttaaa	480
nggaaaactt	gaaaaataac	ctggatcttn	tttggcgga	tcagttatnt	ccaaat	536

<210> 8276

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8276

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aattagttta	atttcatctc	taggcaagtt	ctgtttccaa	acattagtat	tagttggtga	180
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taaaactagca	ggagacaaag	gaattccaag	aaaggcaaaa	atcctttcag	tagttttctg	300
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atttgatttg	gatttgata	attctttcct	caatgggtca	tactcgaagc	ataaccccga	480
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<210> 8277

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8277

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gttccttgca	agtgtctact	catcttccat	ctttttcctt	tttttaaate	attctgcccc	180
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actacacatc	ccaaggtact	actttttctca	ctttttctgg	ttagccagaa	tgttccatta	360
agaaacaata	aaagttgnat	agttctctaa	gatgaaagat	tagtatattc	aatggctatt	420
atattaacca	tttaggtgga	catcnacaaa	aactatcctt	atattaattg	actggaggtn	480
ttacntagga	aataagtacc	ctctctttgc	attcacttaa	ngctacagat	nctcaggaat	540
caaan						545

<210> 8278

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8278

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acaacattag	cttgttcaga	aaatccaaaa	gccacatcca	aagatcaatg	atgctacctt	180
aaagacatga	gggaggctcc	ttaagaccct	agagacacca	aggacccac	agggccagtc	240
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cggcggtcac	agaccgagga	tccgctgaca	gcacagcctc	aatggcacgc	tttgcttctc	420
tgntgactga	aaatttttaa	atgacgcctg	gccacatntt	gngnactgag	cttgcccang	480
nccatttttg	cttgaggngt	aa				502

<210> 8279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8279

aaaacaacag	aaattttattg	tctcacagct	gtggaggccg	gaaatctgaa	accgggggggt	60
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09629469.072300

cagcaagcag	ggccgtgccc	cctgtgaag	gctttaggga	aggatcctgt	cctgcctctc	120
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cttnct						546

<210> 8280

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8280

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tcattcaagg	aatatttgggt	gaataaatta	taggtggaat	attaataggc	agcagaaatg	180
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ngatgacacc	aangggcttt	tgcantngnc	cgggtaatgg	gcaggaggct	caattttata	540
cc						542

<210> 8281

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8281

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cctaagctaa	aagtatatct	acatatctac	aacacatgta	aatataactg	aagaactact	180
tcaaataatg	ttgaaattca	cagaattcta	gagatttata	gttatagttt	anaagtatca	240
ccaatttggt	tgcaatcaaa	tgtncagcac	taattatgaa	gaatgtttta	actattaaac	300
caaaagggga	gaaaaactgg	gagggaataa	tatggngtta	aagtcctgtg	ataaataactt	360
agaaaattaa	aaagtaataa	tatacattcg	atttaatgac	caaaaatttt	ttttgaatcc	420
ctggtgncat	tttnggagct	taacccagtc	tgtcanaagg	cagtattgct	atgctgnong	480
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<210> 8282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8282

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tctgcctcgt	cctgtctcgt	cttcctctac	cccactcccg	ggcgttggaat	tccaacttgg	180
tagtgctgga	gccctggggg	tgatgggggc	atctccaata	tgatgtggat	tcctttccga	240
tgggttggca	ggcagatgga	acaagggggt	gaagacttaa	aagcaacctn	tcaggccagg	300
gggaagggaa	ggagctccag	gccgggttcag	accaggaagc	ctgggtacca	ccttctctgg	360
ctcctctttt	cagacctcca	ggttgccccc	cagagcttca	caagtctctc	ttcttccttc	420
ccatccccta	atcctcgttc	gccctttccc	atacaagtgt	gttaatttgg	gccctttttg	480
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ggggttccca	n					551

<210> 8283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8283

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ttgatgtaca	caaaatgggt	gaatgccaaa	ataattatgc	tgagtagaag	cacctcccc	180
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cgggggtgtg	aactgctgtt	ggtgggtgat	gacatgttct	ggcgacagct	tcacaggcaa	360
atgcatcggt	cacttcacgt	atgtgcagtt	cattacctgt	cagttacacc	tcaacagagc	420
tgttttaaaa	agcaagggtg	ggcgggcttt	ggtgggtcac	acctgtaatc	ccacactttg	480
ggaaggccaa	ggaaggagga	tcnttgaggc	nngaatttta	agaccagnct	gggcaccaat	540
nngaccctnt	tcttttta					558

<210> 8284

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8284

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gatggagtgc	ataacacctg	acagcagcaa	gaccttttga	ggaaccgaac	attgactaca	120
gtatatcatg	caagtatcta	tatatacaca	aaagaattcc	ttttcttaaa	aaaaaaaaaa	180
aaaaaggtac	aaaacatggt	cagggataaa	tacaagatac	aaaatgcaaa	agaaaacaca	240
aaacaaaacc	aaaaaataga	actntntcag	agaactataa	acggaaggga	cagaanagta	300
cctntgctgc	attttaataa	agcagaacta	ccgacgttaa	atatacttct	tgaaatggct	360
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gcattgataa	gtcngtggtt	gaaagntgng	cattccgact	tttaagtncc	ataacgggtt	480
gggaatnccc	ccagaacang	gaaccccaact	ttttttgcaa	ncaa		524

<210> 8285

<211> 472

<212> DNA

09629469.072300

<213> Homo sapiens

<400> 8285

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agcacaacag	cccctctccc	tcccaccccc	ccgtacaaat	atggcttctg	tgtaatatgg	180
acagagtggg	tcagcttgaa	gaggaaaagt	cattttccca	aaagcgggtg	ctgggagaca	240
agaagctcaa	caggcctggg	gccccagggc	tctcttgctg	tngtaagagg	agtaggcccc	300
ggcttaggtg	aggggctgcc	tgtggtgccc	aaggccctaa	ccagcggctg	gaagattcac	360
aactgtatta	cctgaactga	aggggggtggg	caggcctgnt	agantgcant	tgcccttttt	420
ggatgcccat	tgngagacca	gggaaggaaa	ancctggggg	naagggtggga	nc	472

<210> 8286

<211> 483

<212> DNA

<213> Homo sapiens

<400> 8286

agacaattta	cacaaattta	ttagcctcct	atgactcagt	aaagcaattg	aaaaaatata	60
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catacatatt	aggaaatatt	tcagtcctta	gagaataagt	aaggcaaaaa	caggtccagg	180
agtctacaga	tgacctcccc	tcaccacaag	tccaagtcac	tttttttttt	ttttgaaacg	240
gngtttcgct	nttgttgccc	aggctggagt	gaatggngtg	acctcggntc	actgnaacgt	300
ntgcctccta	tattcaagca	agtntcctgc	gtcagcctcc	tgaatagcta	ggattacagg	360
agcatcgctt	gaacctggga	ggtggaggtt	gcagttagcc	cgatatgacc	ccactgtctc	420
cantttgggc	cccaaantga	gactgtctca	aaaaatnang	gnaaaagaan	ggaaaaaaaa	480
nna						483

<210> 8287

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8287

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aactgaagac	agtatgtttt	ggatcacttt	tgtcctggaa	gaaaaaaaaa	aaagtctagg	180
ggtcctctac	aaatagttat	gaccaaagct	cagcaaagaa	tggaatgac	tgcaattaaa	240
tgccactggc	cctggctcac	taacagccag	ccagtccctg	ctatctggca	acctttgtgc	300
tagcttcctg	cctcttgcta	cacagagaac	acagggcctg	tcttagctca	ggccaccata	360
acgaaatacc	aaagactggg	tgacttaaac	aggcgaacct	gattttctca	cagttctgga	420
ggctggaaat	ncaagatcan	ggtgccagca	tgatangggg	cttggtgggg	gctntctttc	480
tggcttgnaa	aagggcactt	tctctttttt	aaaatggaat	gggnanccta	tgatggctg	540
gacncacan						549

<210> 8288

<211> 552

<212> DNA

09629469.072300

<213> Homo sapiens

<400> 8288

gtcattgccc	aaagctgatt	ctcttgcttt	ttatttcttg	aatggcataa	gccacgtcaa	60
agggctaaaa	atgcatttca	agccccagct	gaaaaccaac	tggagagggt	gaggcaaaga	120
gagaaaagga	gagaacacaa	acttggttgc	gggagtagag	gctgccacct	gctccctatg	180
gacatttgca	aatgctgggt	aatgactgga	ccctccagga	atagtgccct	gacccctagc	240
ccaaaatgta	tccaagtggg	gaacatgcag	agccccactg	cccaggagaa	ctccccctcc	300
caaagggtga	cagaacacga	agtagactgt	atatgaaggc	aatggacagg	gcagatggag	360
tgtagcatc	actctcttta	ggcacttggt	taagggaatg	aggctctcca	gtgagctgcc	420
tncnccaga	gccctccatt	ctggctctta	actgggcttg	tgcttatagg	gcaccccatg	480
ctgtaaccng	canggaaaaa	gtaaaggggg	agnttcttaa	caancctgag	gcttnttcaa	540
aangaaggtt	gg					552

<210> 8289

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8289

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gaaaaatgtt	ctgaaatttt	tcaagtcaat	gttgttttca	agtatattaa	aatgctcaga	180
agaaaaaatt	ctccatgggt	ataattctga	tcaatctata	aatgtacttt	ttaaaagaga	240
gttccaacag	aggtggataa	taggtaagtt	cctcagacac	aggcatacag	tctttttgaa	300
gaaatagaat	gccttgttac	cacaacctgg	ttgatttttt	ttttttaaac	actgatttca	360
ggcacaatgg	ctgaatccac	ttctgggtca	tctttctcct	cctcttggtt	ggttttacaag	420
agtagtgaat	acttcagtta	tggacagaaa	gaaagacaca	aactctgaaa	cgggagacttc	480
acttttcact	acaaaggaat	caaagtcact	gagttctcat	tggttgggggt	ggaatctgct	540
gnccctgtgc	caaaaatag					559

<210> 8290

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8290

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acacacacac	atacaccctt	atatatgatt	atggcagcct	tctacttctc	caacgcattc	180
ttttttttgt	ttttttgaga	cagagtctct	gtgtgttgcc	caggcttcaa	tgcaatggca	240
tgatctcagc	tactgcaac	ttttgcctcc	tgggttcaag	tgattctccc	gcctcagccc	300
cccaagtagc	tgggagattg	aggccgcggt	gagctgattg	tgccactgca	ctccagcctg	360
ggatagagcg	agaccttgct	tctaataaat	acacaagcaa	aatccaaagt	tcgctttgga	420
ttgctagccc	atcaaaaagg	ctagctcctt	gaagggtggga	atttttgcca	ctttagttcc	480
ctgctgcatg	cccagcaact	ggaacaagtg	ccttgacacat	agtangtgct	cagtaaagtgt	540
gaaggatgaa	tgaanac					557

<210> 8291  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 8291  
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gcctgagcat aggagcacia aagccctgtt acagaacttc tgagagttta aataccctct 120  
aggtgattcc attggttact tggggcacac gttatgtaga tggagagcct gttacagaac 180  
ttctgagagt ttaaacaccc tctaggtgat tccattgggt acttggggca cacgttatgc 240  
agatggagag gatgaagtta caaagtcatt tgcttggcct atgtcctatg gagaaggat 300  
ttcctatcat aactgaagtg tgaatcagcc tatgttcctt gcactcagac cctattttcc 360  
tgccctctac ctacagctgt gtggtcctga gctgtcacct cttccctttg aagctcaggt 420  
tcctcatcgg taaaatgagg cagaaatact cactgctgan atgtgtgagg atcgcacaaa 480  
ctcagtgtct caacatgttg tacntgtgtt tgggccctct gagcccttga ggcttgcccc 540  
aggtggaac 549

<210> 8292  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8292  
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cgcatcttact atcatctcat ttgaaagctg atgtgttttg gctgggtgat ggcagagggg 120  
tgggagtttg gggatgctgg ctctgaaatg ccagagaggc attaagaact ctggaagcat 180  
ctggctactg gtagacattt tacacagata gcaatttctg accaatccat ttcaatgatt 240  
tctaaccat actcaactat ccagaggata ctgttttaag aacattattg taaactgata 300  
ctctctattc atttacaaaa ttcatcatt gcatactttt tgtttaatat cttggattca 360  
gtgttacaga ttgattgac ccaagtgaag aaatactgac actaatcatt ttttaagtgt 420  
atttcagaag aatatgcgca atgtttctaa gttattgtga ctttgtgact gtcgtagctt 480  
taaattataa tactaatatc ctactctgag aaatgtgtaa gacacaggtc taacaaacaa 540  
ctacattaac ctgc 554

<210> 8293  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8293  
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aaagacaaga gacaagtaga ttgcaaaaag aaatgttttt gtagaaaagg gaaaaactct 120  
atgggagatg aaataaaatg agcaagttct gaggggtgat ggacagatca aaaacagatg 180  
atcttcaaga caacataatc acccataaac gtggtaaaac aaaaaattac acttccaatt 240  
tggtggaaag agtgccacct gctgacactt tctggaataa ggtagtttag cccatttgaa 300  
agaagctgta ttgccttctc aaaaacaacg aaaacctact attgatcaat gaaggttaaca 360  
agatataact tcaacaaagt aaaacaacga acacataatt atcccacaaa ataagaattt 420  
aaataaagaa ttatcaaacc tggaattcta ctctgtcaa ttattgnttc tggcatatgg 480



taggggttca aaatacattt gttggagcga attctaacat agtactatth agttttctga 540  
aaatcctgna atgn 554

<210> 8294  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 8294  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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nnnnnnnnnn nn 552

<210> 8295  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8295  
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taactttcca ctgttacatc aactaggcaa ctttgttatg tttatgttat atgtatcagt 120  
tacttatcag cacagaattt taaccactct gctaaatttt gagaaaacag ctaaaactcaa 180  
tataaaattt ggcctacaga attatagtgg ctatttggtta ctaaaaatat tccaaaagaa 240  
atttacttat ttactatat tccatattct ttaacttaaa atctgctgcc actgtttagt 300  
aaaagtggga caaataaaat tctttaaaat atagaaaata cagttcctgt taagattttg 360  
caaacaaaaa attataaaat aatacaattt gagtactcta aaacaatata ctttgtagtc 420  
tagattgtgg ttttggtcag tatgtctgac actatgaaga ttacatcag ttcagggaat 480  
gagttctaatt ctattaataa atagtcaata taaccaaaca cctgacagga ttccccatat 540  
gaatattttt a 551

<210> 8296  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8296  
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gtggccactg aaaaaagtta aaagggtcaat cagctcctgg cttctagctg gccaggatt 120  
gcaaaataaa aagatccacg ttccttattc tctacacaaa acgcgttttt aaaaaagtga 180  
aagggtctagg gagctataca tagaaagcaa cagtgaagag ggagagggag caggagtggg 240  
ggaggagagt cccaccccc aacccccaccc tccaggggccc cagagcccct gaggctcttt 300

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ggggggcctt	gacatggcag	gaggcagctg	tcagctctga	gctcttccca	gctgggaagg	360
cccctctcgg	gggcagccaa	caaggatttc	cgtggcattg	tgggctcagt	ggggggctcc	420
caggccccag	caggccccac	agagggagcg	tggcttccct	gagcaagcac	cgtggcatga	480
tgtggtcggt	caaccagga	actgggggtn	cngggcaagt	cccgggtcct	acgaggtgcc	540
tgtttggtg	tggt					554

<210> 8297  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 8297	
cacagaaccg	gagtatttta
ttgcaccaag	atcttggcaa
cacgtggggc	tccccaggcc
60	
cccggaaagg	aggtgcagag
gatgggacac	agacctctgc
acacacacag	gtgcggccat
120	
gcaaccagga	cgcggggcag
gcaagtgaga	ggacctggga
gaggtagctg	ctgtacacag
180	
gccccactcc	ctccagctcc
attcccaagc	acaaaattca
acagaccag	atcctaagtc
240	
aaccaagtga	ctgctatgac
aaaggcttgg	gttattgaca
tttacttaca	tacgtgtaca
300	
agacctagag	tttgaactcg
tttcttgggc	ctcatctttc
ccttccctat	ctggttgatg
360	
acttcggttg	aggggaaggga
cgtgactcca	cccaacagtg
ataaacgctg	cagaaagtca
420	
tctcgtgctc	accactgccc
aagaattaac	gaatgtatgt
accccaggaa	aagggtttac
480	
agttatctag	tggagaaggg
aanaaactga	tttggaggaa
aagaaggag	agaaaggacc
540	
cagataaatt	tnn
553	

<210> 8298  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 8298	
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aataaataag	ccctcttact
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60	
aaactctgtc	ctcctggtct
aagacagaaa	ccacattcag
aatatgttca	ttgaaaaagg
120	
aaagatttgt	tgattatcaa
acaaatctag	gtacttcaat
acacattgtt	tctttgaaaa
180	
ataaagactg	aaaggaataa
ttcatttcaa	aaagtcacag
gttagaaaac	caattttcct
240	
tctgaggctc	atttttagcaa
atcctccaag	tgttcccaaa
tcttttaaaa	aagctacatc
300	
ccctgagaaa	gggccctttc
cctgtagccc	tcttgctctg
acaccagcag	ccctgcaccc
360	
ttctgccaag	tggctccctg
caggacggtg	ctgttgccgg
gcaggaatgg	ccctccatgg
420	
caacctccag	caggcaggag
ctcaccacct	gctttctgca
aactcactca	cttggtcag
480	
ctattctgca	atgganagga
agttccttac	agccaaagta
ttctaagntc	acatttttnc
540	
ggt	
543	

<210> 8299  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 8299	
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tattctacca	caaatttctt
tcaactcttt	ttataaaaaat
60	
gcctgtctcc	ttagttgacc
tctaagtttc	taggttcttt
ctttttcttc	ttttcttttt
120	

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cttttttctt	tttttgagac	agagttttgc	tcttgttgcc	caggctgaag	tgcaatggcg	180
caacataggc	tcaccacaac	ctccacctcc	tgggtttatg	tgattctcct	gcctcagcct	240
cccaagtagc	tgggattaca	ggcatctgcc	atcatgcctg	tctaattttt	tgtattttta	300
gtaaagatag	ggtttctccg	tgttggtcag	gctgggtctca	aactcccgac	ctcaggatgat	360
ccgcctgcct	cgacctccca	aagtgcctggg	attacaggcc	tgagccactg	ctcatggcca	420
gttctttcat	tttttgagtt	tctgtttctg	atctaaagtt	taccactggg	ttccaatttg	480
tttgtgaagc	anagaatatt	ggcacactta	gttgcttgca	taaacattcc	tttcctataa	540
gatatagn						548

<210> 8300

<211> 552

<212> DNA

<213> Homo sapiens

<400> 8300

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atccaccac	ctcggcctcc	caaagtgcctg	ggattacagg	tgtgagccac	tgccgcctgac	120
ccttgacagg	acttcttaaa	gctatggggg	tttcccagag	cttggttagca	tgtgtgttca	180
aagggtatc	aatgtttgag	tgtccttagca	ggcactggat	agagagcagg	atgggtcctga	240
tatcatagc	ggcagaccac	ttctccttca	ggatgtccag	gcataatgta	ccctgggtgt	300
ccacgttagg	gtggttagcag	gggtgtgagga	acttcactgt	gggtgcatcg	taaagggtggg	360
tagtcattga	ggaactccag	caagagctta	tacctcagat	cttcatacac	tgtgccagct	420
gcttcatgga	tggtgtccat	ttgataaggc	tttcagggtg	ggcagaaatt	cttttgtcac	480
caggcatcat	gaggggtcat	caacttctgc	tgtacctttt	ggctacaggg	ncccaagcaa	540
tgnccctgnt	gg					552

<210> 8301

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8301

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tgatcttggc	tactgcaat	ctctgcctcc	caggttcaag	cgattctcct	gcctnagcct	120
cctgagcagc	tgggattaca	ggcatgtgcc	accacacccg	gctaatttta	tatttgtagt	180
aaagacaggg	tttctccatg	ttggtcaggc	tggntctgaa	ttcccagacct	caggatgatct	240
gcccgccttg	gctcccgaaa	gtgctgggat	tacaggcatg	agccaccgng	cccggngctac	300
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gggacagtgg	tgtggangag	gaacctatagg	cctganagtc	catctgactc	cttinctggac	480
ccanaagcan	gagaaggng					499

<210> 8302

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8302

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ataacataaa	ctgttaggtc	tatatTTTT	actgcacatc	ctaaggacac	agcagaaatg	120
gtggttggga	ggccttccac	atTTTTggat	gctaatagaa	caggcaatag	gcagttataa	180
atggatacat	ttcacgctgg	gggaaaaaag	acaatttaag	gaagtgagca	gtttctgagc	240
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gaaaacctgt	ataaaattcc	atgtatttaa	accaatttac	aaatacaaaa	aattctgtcc	420
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aataccttca	aatagttttt	cttcttaaaa	aatgacctga	gatataattat	tccatactct	540
tttagccngc	aaaatgaggt					560

<210> 8303

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8303

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caacacataa	cttaaaactg	gtcttcagtc	acattgcttc	agatcactag	agaatttctg	120
gctaacgaac	agtagtggtat	agtgaacaaa	atgcaaaacc	ttaaataaga	accatcagct	180
gacattcccc	agagacaaga	ggaaaggtaa	gggcttattt	catctgtaaa	aaataaaaaa	240
gccaattctt	gcatctttta	cagaatggtg	caaaaatttg	taacaaaaaca	gtctaagttt	300
aaaattacag	aaaagtgttt	ctagccaact	aattgtcgct	tgggatgaga	cgtgctgagc	360
atggagtggga	tgaaggatat	ctctaagaat	ggacagaggg	caggaggggc	ttgtttccaa	420
tgtaggccca	gcttcagggt	ttagaaccat	gctcatttgg	taaangaagt	ctcaaagagc	480
ttaangcttt	gggttggttt	TTTTTtcctt	cattaaactg	aggggctgca	ctaanggtga	540
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<210> 8304

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8304

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actgatgaca	catattaaca	ctttgtattg	aagaagtatc	ataaaaaatca	cagggcatta	180
cagatttttg	ataagaagta	gtaatagcat	tgtcttttaa	cagctggagg	ctcccaggca	240
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ttttaccagt	tataaaaaaca	aagctttttc	tttgttgtga	tactgtgcac	taagacttag	360
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gacctgggac	tgaaactgtg	gagcacatag	ccaggtcaca	ngcttcgana	gcnnaaagag	540
ttgctctg						548

<210> 8305

<211> 550

<212> DNA

09629469.07800

<213> Homo sapiens

<400> 8305

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aaaaaaagaa	aaaaagaaaa	gaaagaaaaa	gaaagaaaag	ataaaaagac	caactgtccc	180
ctcacttggt	tttataaaca	tctattatag	gcgaaacaaa	acttaccat	attatataga	240
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ttacaacaca	ttaaacaata	ttcaagttac	tgagtaacaa	caataacaac	aataacaaaa	360
gaacacacag	cagaagcctc	aagtgtttcc	tcattgtcta	caactcaggt	atgggtttcct	420
ttttatgagt	gacaaagcaa	attaagataa	tgaagtaaaa	aacgattgtt	tgcaagatga	480
aagccaat	gnacttcctt	ctaaaactac	ctttaagttg	caaagtataa	tttaagaagc	540
tnatagccnt						550

<210> 8306

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8306

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caccgacgtc	cccctgcctg	ctccgcaacc	ccagggcctg	cagaaaaggc	ccacgagact	180
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cctaaccaga	gagaacacgg	cacgttgtgc	cagacggagg	acggatgcc	gagagggtcc	300
atgtcctcac	tgccgacaag	gctgggagct	gggccaagt	aagcagaggc	ctncacgtca	360
gatgtgagcg	ccaccggccc	aggtgactgc	agttcttccc	tccttccgtt	cggcttgagc	420
ccttcagagg	atcggaaagg	ctgaagcctg	acctggtgcc	gttgtcctgg	gtgggtctgt	480
cctgctggtc	ggttctgncc	ttttcgggag	gttggctggc	acttgcangt	ggaaagcttc	540
tgngttacct	nagggaaaag	ngg				563

<210> 8307

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8307

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taatctttgc	tggggaagcc	ttgagccttg	atttatcctt	cccttggctt	tgggctttga	180
ggaagtggg	gatggagggg	atgatgcttc	tttaggtttc	tctattccaa	gcccctctga	240
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gtatgggatt	gagcctacag	caagaggaag	aagggaactc	cagtatagag	tacacaaagg	360
aaaagggcag	gaaagatacc	aaaggcttat	gaaaacaaag	gaagggaaga	aaagagaaaa	420
aaggtggaaa	atcaggtccc	agattgcttg	ttaggaagaa	tgaggtaatt	ttgggcctag	480
gaatgcacaa	tccaaagctt	gattttcacc	acctncattg	gtctcttcga	gccttccttc	540
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09629469.072300

<210> 8308  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 8308  
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ttttataatt ataaatcctc tgcataccat aaaatgattt ggttttagctt tcaaaccatca 180  
tctaaacaaa caaacaagac agagagggaa gttcactgct ggggtttgca aagaaggga 240  
tctgttcgtg ggcagatgct gcagggtggc tgctgaaaag ctctttttat gtgcatgatg 300  
gtggtcttct cggctacagt acaagtgcct gtgcatcaag tataaaatac aagccttta 360  
tcacatagat cagcttttta gcttttgtaa atttaaaaac aaaaaggata aataaggcac 420  
tgtactttta aaaacgaaaa ctgcttggtt ccaagttaa aaccaaggga caccagaata 480  
taatatataa ctctcttacc tcagagaagg actctgcaag gttccttttc atctgagaag 540  
catttctggc atctaa 556

<210> 8309  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8309  
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tctgcacctt ccatcatgat gcacatttta agttaaatt gccaatacaa cccttaaaat 180  
gcaagtttat tgaataaagc tgagaagagc agtaaacaga caaaaaatgc atccacctaa 240  
ataaaaaaat tcacatattt acatagttca gtaactgtta aaagttttca catgcagagg 300  
ttaatgcaca ggaaaatgtt ggtaatagcg tctggatgtc ttgaaatgcg gaaagcaatg 360  
tatagacaca caaacacatt aaggtttagc tataggtcaa ttaacaaacc tatgcagtcc 420  
ccacagagtc acacattcta gttccaattc ctcttttag gcacaagcaa gttggccaca 480  
ttcttttigna atgggtcaca ctggccatta anggggttga acaccgtnc aggttnaaaa 540  
tnccttcatt tccgaanc 558

<210> 8310  
<211> 540  
<212> DNA  
<213> Homo sapiens

<400> 8310  
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taccagctag tgttctggta tctcctctga atttttaatt aatttcactt ccagagaatt 120  
aagtattatt tttgttgaca gtttgttctc tcaaacggca ttgcatttag taatactttt 180  
ttagttgttg gggtttttgt tttttcaaatt gttactaatt tgtttccctt tccagctgaa 240  
gaaatagtga ccaggggagt aaatattctc aggccactgt gtttgtatat tatggacaat 300  
caagaaagaa ctaggggtatg ttagagacag aactccagag gtcaggtcat ctccgtctac 360  
tcaacttggtg gacttggtta agtcacgtga tctctctggg cctccatttc ttcacttata 420  
aaatgggact aatactttca acctagtaca tgaaaagaaa atatgctgat tggaccatc 480

ctacttctgg tagnaacctta caccagagcc caggctgggt ggtcatggat ggtncctgc 540

<210> 8311

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8311

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tctttgcttt	tctctatgat	tacagcagag	atcattatgt	attttattag	tttcttcagt	180
ctttaaggta	tttttggatg	atgttcaa	aaactccaag	ttatctccaa	ctttttctga	240
acaaaatatt	tccattctta	agatacaggc	ttgtaattca	catacttgat	gctactcaat	300
ggcgtcttat	ctgtattttc	ttctcacatt	tgactccaga	gtattcagtg	cggcaggaac	360
acacattggg	gaaatatgca	tctgcctcca	taaagacatt	ttgggttgca	aattgggtatt	420
gacaccggac	tccttncag	gaggaaggac	aatggcatat	gctgggcca	atgcattcac	480
caccgtttta	catttctgca	agcnnaaang	ngtgttgc	cgttcccact	ccacca	536

<210> 8312

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8312

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aggcatgtgc	caccatgcct	ggctaatttt	ttaatttttt	tgtagagatg	gggtcttgtc	180
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agtattggga	ttacagggtgt	gagccaccat	gtctggcttg	cttctctttt	tgtattctaa	300
aattcaaagg	cctaagtatc	aaatccctaa	atctccaaat	actgtcacag	ataaagactc	360
aataataaac	tccctccgaa	agtttagaca	ggctcaggtg	agagacttgt	tcaaggggtt	420
ataaaaagaa	acaccagtgc	tctgcagaag	aatcaagttt	ttaatttttt	taaatgnatc	480
tattttaatg	ggaataagtt	gatcattaga	atttgtaa	caaaanggta	atttctcaag	540
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<210> 8313

<211> 462

<212> DNA

<213> Homo sapiens

<400> 8313

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gtatatattac	ttaacaagga	tgtgtgta	acaagaca	cctggggatt	acacacttga	120
aggaatggaa	gtggcaaagg	ttaacaggca	gaaagcagct	ggatgaaaca	gtttattttc	180
atcttagaag	attctagcta	tctgtggaga	ccaccactgt	tccccgaaaa	gctaaaagttg	240
ttaagtttgt	aggagtacca	caggtccttc	cccctgctgc	aagacagaga	cttgctctgt	300
tgcccaggct	gcagtgcagt	ggtgcaatct	cagctcactg	caacctctgc	ctcccgggtt	360
caagcaattc	tcctgcctca	gcctcccatg	tagctgggat	acaaggtgtg	tgccaccatg	420

cctnggttaa ttttnggant tttagtanan attgngntt. ta 462

<210> 8314

<211> 491

<212> DNA

<213> Homo sapiens

<400> 8314

c	ttt	gtc	caa	tg	atta	atat	ttt	gata	tct	att	gaca	aatc	cct	taga	act	tt	aaat	ctca	60
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ttt	tctgaac	aaa	aca	atta	cat	gtca	aaga	atc	catga	ag	cct	gga	agat	acg	ctcac	180			
ttt	tgaggtt	tgt	atta	atg	ccag	tttt	tt	gtatt	aga	caa	atg	ctct	ctg	aga	aatcg	240			
aag	acttcta	aag	gtag	aca	ggcc	cag	ttt	ccc	attag	ag	ttc	tga	agc	agag	cctggg	300			
gaag	gtctgt	cact	tgc	cca	tcact	ggacc	agcc	aga	aagc	cagc	ggggg	c	cagg	cgggg	360				
ctg	caggctg	cagg	tcc	ctt	ccag	tcc	tgt	ccct	gctgcc	ctt	tggg	gac	catt	ttt	gtt	420			
aana	accttn	gcc	ggt	tgnc	ctt	gaan	ctt	cnag	cncc	tac	cttag	gc	ctaa	ang	gtt	480			
cct	gaa	ccc	c													491			

<210> 8315

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8315

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tag	ga	act	gg	ggc	ctc	gggg	atg	agg	ccga	gtt	ccat	cct	gc	ctt	ctt	cc	acg	accatcc	180	
ttac	ctt	ccc	ac	cccc	accg	ct	cccat	tct	gc	agat	gaga	aa	acc	gagg	c	tcg	aaagga	240		
aaa	acc	act	g	cct	ggatt	cc	cac	gc	ctct	tt	ctt	ta	act	ca	ttt	gc	agg	tcaggga	300	
agg	aaa	atcc	tag	gggt	cagc	att	gggg	agg	gggg	gact	ct	c	ta	aa	ttta	tt	ggg	caaca	360	
gg	ctgc	cagg	t	gang	ggg	ctg	ac	agga	aagaa	ggg	tcc	ggg	tg	tna	ata	ac	ctt	aaaa	acc	420
g	tag	gtg	aca	acng	ga	agtt	ctt	ta	aaga	an	acc	ntt	gcc	n	aagg	gaa	agg	tttt	ggggg	480
ttt	tcca	agg	gttt	tgc	caa	aagg	ncccc	g	ccaa	acc	tt	ggg	cc	agaa	aa	atg	ggg	ggtt	540	
tann	cc	ttan	gg	nt															555	

<210> 8316

<211> 467

<212> DNA

<213> Homo sapiens

<400> 8316

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tg	ca	acct	ct	gc	ctcc	cagg	tt	caag	t	gc	ctgc	ct	can	cc	ctc	ctg	agt	acct	ggg	120			
att	atag	gca	tg	cg	ccac	ct	tgc	gg	cta	att	ttt	gt	att	ttt	agt	atag	acg	ggg	gactc	180			
aa	act	ccc	ga	cct	ca	act	ca	tcc	gccc	gcc	tng	gc	ctn	cc	aa	agt	gct	gg	gattac	aggc	240		
ggg	ag	cc	acc	gc	gc	ggg	cc	at	cttag	atc	ttag	ag	ccca	ctt	tag	tc	ct	tg	aa	atacat	300		
ctg	aga	ag	cc	aat	gg	cag	cg	aat	gac	gg	t	ccc	gc	ctg	cc	cagg	cc	ct	tg	gg	tg	ggcc	360
agg	cc	ctg	ct	tc	agg	agg	t	gc	gg	cc	act	t	cng	gg	gat	nac	tg	at	gc	agcc	ccn	accccc	420



tggtttgtcg ggactaanct gngtcttnaa ggtntgtgaa acttcca 467

<210> 8317

<211> 509

<212> DNA

<213> Homo sapiens

<400> 8317

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aactaagaac	agacaggaaa	attacagact	gaacccact	tgaggaagac	ttccccacgg	120
actcacactg	gtgatggggc	gaacgttcaa	gacgaagcca	gcagtccttt	ccaagactct	180
tttgtctttt	agggatcctc	aatacaaaac	aacccaacta	atccaggata	tgtgttcaaa	240
acagtcagtt	ttccccctca	aaaggcggga	aggcccactt	caaacctcca	ggaacacaac	300
ccaagtcctc	ccagtgttaa	acctgggtgt	tccgttttct	gcctcaatcc	gagcgctaac	360
ataaaatctt	ggcagacaac	aatctttctt	tttcaagaaa	attaacattt	aatgggataa	420
tcccaagaac	atggtctact	taatttgctt	tggaaaattn	aaacttnggg	nccctntttn	480
ttcccaaggg	cngtnttttt	ttttgagaa				509

<210> 8318

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8318

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gacaaagcat	caaaccaggt	tctgcctagt	gataagtttc	accctagagt	atgtatgtaa	120
cgTTTTagct	tatccatcct	ttcttggagc	gcctccattt	ccattgaaag	ccagggtgga	180
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aaagatgacc	tctttgcttc	ttctacagtc	acattagcaa	agggttccca	gaaaatacct	360
ttttcctgtt	tcacacgttc	cactttggca	agcttcagtt	tcattctaaa	accagctttt	420
ntccagaang	ggtccacttt	ggtccttaag	tttttttana	acttgggaca	ctntgggaac	480
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<210> 8319

<211> 513

<212> DNA

<213> Homo sapiens

<400> 8319

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cggaggcttc	aacacaactc	attgcactta	gaaccgttac	taaccgaaac	accatttgct	120
tgtcaacaat	gtacccttga	cagcaggagg	aaacttcttt	atagtctctg	cttcagacaa	180
gatttacagc	tttctccaag	gccagaggcc	aattgtgacc	acaagtcttg	tttcttgtcc	240
accagaccca	atcctctggc	accttgtacc	ccccgttcct	cagcaatatg	ctcggcctag	300
gttccagagg	cagctggaag	gaagcagcta	tgggtctcatt	cagttctgtt	tgcccaaatc	360
cagaagccct	aggaaagtcc	cgtctgagtc	ttgactcctg	gacccttcaa	tggcttgaag	420
tccggtactt	gggcacaacc	ccaatttcac	cgggggtggg	aangctttga	aattggaaac	480

cncnnatanc cctggaggcc ttggnaaaaa ntt 513

<210> 8320

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8320

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ggtgaatgga	ttaaacaaac	tgtacagatg	tggtatatcc	atacaatgga	atgttattca	120
tcaataaaaa	gaaaagaatt	gacacacaca	agacacaaga	atctaaaaaa	taattatgct	180
gcgtgaaaga	agacagacaa	aagaagagca	cgtactctat	gattccattt	atataaaact	240
taagaaaatg	caaacgaatc	tgcaggggaca	gaaagcagtt	cagtggctgc	cagagagagg	300
gttttctcag	ggggaagagg	cctaagaaaa	cttttgtggg	tgatggatat	gatccccctg	360
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tttaaattatt	aaccctgtgt	tggatatcaa	ttttacctta	attnggnctn	gttttaaaaa	480
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<210> 8321

<211> 490

<212> DNA

<213> Homo sapiens

<400> 8321

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agcacataaa	gcaaatcat	gatgtgaaag	aggcaaata	caatagttaa	agtatgtctt	180
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aactgatgag	gaaacaggct	cagatgggtc	tattgatggg	tccacttgct	agaagcaaaa	360
ctggaactag	aaaccacgcc	ctggcttcta	ggcagcaagc	aataagtttt	tgctaaaattt	420
ggtncccaac	atttaaaacc	aattcccca	aatngggaaa	gncaaanngg	gttttaantg	480
gggntttttt						490

<210> 8322

<211> 399

<212> DNA

<213> Homo sapiens

<400> 8322

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tcagggtcac	cagtgtgtga	aanatcgggg	catgccggcc	acagggggaa	gcagggttca	180
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accctnacag	nggcctgggc	aggggctggg	gtgcaaagcc	tacccttccc	ctgtgagcca	360
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<210> 8323  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 8323  
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agcccctggg ggagcccatat cccgctaggt agaagggaag gccacaccaa gtgctgagtg 180  
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gccnnttttg gcttaaggct ngagtntaaa aggaccttct aagggcttct ggttggnrtg 480  
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<210> 8324  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 8324  
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ggatacaccc ctctcctcag gaaactgtca cctgcagaac acacagcact cagaattaag 180  
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cctgncaccc tnaccctaga actgggttaac acccaagcca ntctgcctga ccaccttccc 480  
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<210> 8325  
<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 8325  
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aaaaaatttt ttgtctgtct gtctggtttg gggatgtaca ttggctgaca gcatctaagt 420  
tctaagaaga aagaaaaagt nttaaaaatn aaaattaacn tgacaatggc ataagccaga 480  
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aaatTTTTTT cnggtttat

559

<210> 8326

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8326

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tcaagagttc	aaacctaat	cttgtgcaat	aaaaatcagc	atggatctta	gatgatctag	180
aatacactgt	gttttgaaat	ccacagctgg	tttcattttt	aaccattatg	aaaaaccagt	240
actcctattc	catcaaatgt	gttttataag	caataataaa	ttcagatcca	ctgtattatg	300
caacatacat	ctttggaaag	caacataaac	agtggagatca	gatcagtaga	aatatacaca	360
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tctttccaca	aaatngcata	aaactgttga	atgatgaaag	ggtttgggaa	agcttttcca	480
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<211> 559

<212> DNA

<213> Homo sapiens

<400> 8327

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ccattttatc	ctccaactta	tgggggaagg	gaaagtaaaa	gtgagggagg	gaagagccag	180
aacctttggg	tgagggcaac	tttgggtcag	actgccaggc	tacagagtta	agggaagctg	240
gccccagaac	agtcctgttg	cgattctgtt	ctacttcctg	cattccagca	gacttgacac	300
tgggctccca	gacgatccag	gacacaatgc	ctcactgtta	tgcacacgta	tcagctgctc	360
tggtaggctt	gacaagggtt	tgctttaaat	gaagggtttg	ctaatttggg	acccttcctt	420
catatagtgt	ggcctgtgcc	ccccagagca	gacattnctt	ggcctgnata	cctgacacag	480
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<210> 8328

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8328

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gtcagtncaa	tgaaactatg	gagtggaaaa	agaaagtgtc	ggtaagttaa	atagttcaac	180
atagtgcctt	ntagtgcana	aaaacatcaa	cactcatcag	tggttaaggg	cgctttcctg	240
tggggcacat	aggaactgac	agtgccatca	tgancgtgtg	cctcatgtag	cgtatgagcc	300
atgactcctg	caacccaaag	agccaaatnc	agagagccca	gccacacant	cacacaagcc	360

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ctgactttctg	cctacacccat	gaaacaaact	gcactgaaaa	caaaaggctt	gggaactnct	420
ttaaattcaa	aatgtnactt	ttctgctttc	aggtaaggag	actttgaaag	tatttcgnat	480
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<210> 8329

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8329

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cccatccaaa	taaagcaggg	gagaagttta	aaaaggaaac	aaaaggaaac	atacacatag	180
tataagaaaa	aatgtctatt	atttattaca	caataattct	gaccaccaac	aaccaacggc	240
gggggcgggc	aggagagaag	aacatcttgc	ttctcaacaa	actttcctcc	cttgctttaa	300
catttttgag	gattctttcc	caaacctatt	acacctgtat	tatgatgggt	acaaattttc	360
caactcttcc	actccttcca	gtgcattatt	tttagtatct	tcattaaacg	ggcaaaaaaa	420
aagatccct	acttgtaata	acaaaacaat	gttggaactg	tcattaaatc	aggatagtgg	480
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<210> 8330

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8330

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tattcaataa	gcaacagtat	ctgttcagtg	tgcaataaaa	taaaaaagtt	ctaacctaga	180
aacacagaaa	aagaatttat	tgtttttaag	tttcagaaat	aaaagtaaca	gaatagtgtg	240
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aatagaaaca	atctacatgt	ttttctacca	ggtaaataata	cctgagaggg	ttacctataa	360
agaaataggc	tttaaaactt	ttaaccacaa	agaaccttct	gctgcgacat	tatgaagatg	420
ggctatgcat	gtngncagac	tnagtcantt	tcccggagat	tctgctcact	gnttaactgc	480
aggtagtgg	ccatcaatgg	ncagagtntt	taccatcaat	accagttcat	tcaaccaaag	540
an						542

<210> 8331

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8331

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atagattaca	ttcattttat	accagggttg	ttcatatata	tagattaatt	catcacagta	180
tacttatttc	ttaatatact	tgcattttat	caagtaaaaag	aattaaatat	taaaagtagc	240

ttgacaaaat	acagaaatat	tctgtgcaat	aaatttggtg	tcaactgatt	catgactggt	300
tcatgaatca	tgactgatgt	aatcttttta	tctttctgcc	cagcttctct	tacatgatcc	360
ttgggaaata	gccagttgaa	aagaaatatg	gcaaggattt	ctagaatggc	cactaaccat	420
agagtctttc	aagatgtgca	ngttgctttt	tggattcttc	ctgnaggnga	tctggctctt	480
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<210> 8332

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8332

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catataattt	ccttttattt	ttttttttac	caaagttctt	atgaattgga	aaataatttg	180
tttcaaagac	ggtgatgaaa	ggaaaaaaa	agtttaactt	tccaaaggta	atgctttcat	240
gaagagttag	aaatagcagt	tttagtaatt	agttgtagga	attctggtta	agacttcaac	300
attttacctt	acttaaaaga	tttgctttat	gcaacattta	atgccaggtt	ttgcatggct	360
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aaatgggntg	accngnga	taaccngggg	tataaaaaaa	tcccgttcag	agacccttta	480
cccaattaag	gaacttagcc	attccttaaa	tgggnntaac	ccttggggcaa		530

<210> 8333

<211> 348

<212> DNA

<213> Homo sapiens

<400> 8333

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ctgagggagc	ttttcttttc	caccaccgca	ccatgggttc	ccaatagttc	tcttttttga	180
ggacttttca	attgatgagt	aaactgcttt	agatatttca	gaacttcatt	ccccaaatga	240
aagctaattc	ggacaaacta	tatattgcat	agatttctct	acagattctt	tgntttaaaa	300
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<210> 8334

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8334

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cctattactt	ttataggatt	tatcaccaac	atggattctg	tgatgaactg	taagatttga	120
tcgccaactg	aagctcttac	cacatatctc	acatttataa	ggtttctccc	cagtgtgaac	180
tcgctgatga	gactgtagtt	gtgaagaccg	actgaagact	ttaccacaca	catcacattt	240
gtatggtttc	tctcctgtgt	ggacactctg	atgaagttag	agacttgagg	cctgactgaa	300
gtacttacca	cactccccac	atttatatgg	tttttctcct	gtgtgcaccc	tctgatgcat	360
gtcaaggttc	aagctccact	tgaagccctt	cccacactca	tcacatttgt	atggcttatt	420

tccagtgtgg	actttttgat	gggcttgaag	atgtgcactt	cgcacccgaa	actctttccc	480
acattcttca	catttgaatg	ggttttcttc	actggnggac	ttctctgatg	ggcccaaaaa	540
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<210> 8335  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 8335						
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atatgaatac	tttggcttcc	attattacat	tagatgaaaa	aatcaattca	aataagagtt	180
gtcatatcct	gctatgatta	acaaaaaaaaac	aagtagaaaa	ataagagagt	gtattttaaaa	240
aaaataatca	aatgcttttt	gaaagacctg	ttctcttcac	tgccacacat	attcatacaa	300
atgacttagt	aatctaatat	gagaagtggg	ccttcactta	tattaggaac	ttggtaaata	360
tttgttgaat	gaatgaacta	tctatggata	tgaatttact	actttaattt	gtgctttttt	420
tgaaaaaaag	ttttcaagta	agagcaatag	taaacatact	gaagttcaca	tttgctcaga	480
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<210> 8336  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 8336						
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tagactttta	catcacccag	gcctctggtt	tccaaagcat	tttttttctt	taatgcagta	180
aaaccattcc	tttaaaaccc	aaaatctctc	atggaacccc	tacgtatcaa	atatataaag	240
caggagctgc	ccttgttcag	ggataaatatg	tggggcttat	ggctctaaga	aacacagttt	300
gacattcact	gctctcctta	cttcagttac	ctcatgggtat	agataaatgg	gctggggccca	360
gagagggggc	atgacctgtc	ctgggacacg	cagccactga	agcctttagt	ccagtgcctc	420
ttccacagca	ccacactgga	ttctggagtc	ttccagcca	gggcagagga	agctgcacag	480
tgccacgata	agaagtcttg	ggcttctggn	acctaccctt	taaaactgnt	ggnccctaggg	540
cat						543

<210> 8337  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 8337						
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acccactcc	taggcaacct	ggccatgggtg	cccggatgca	ggcagtattc	aagagtttct	120
tccaaagtca	ccagggtgaa	aagccattct	actacaacct	ctacatgacc	ttttaaaagt	180
tacaacttat	aggacagtcc	tttctggagt	actgtggagg	gtgaatcaaa	gcttccagt	240

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taagttttatt	gtctggcgaa	aacaccagag	ccaaaaattc	caccaaggcc	ctggaaagac	300
tgaagtcccc	tctgtctcat	acagtaatca	tccatgagat	ctcccggagc	ctgggtgatc	360
attacgcccc	tgatacctga	ggcagcgtgg	actctgccag	gggctcctca	gacccaaaagt	420
ggagctcact	ttggagaagt	cggagcttat	ggccgttagc	acctaaggat	gtggctgaaa	480
ngcccagaac	aagaaagggc	tttagagacc	nngcncangg	tnantttaaa	acttgggccc	540

<210> 8338

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8338

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aacagcgaca	gtgatgactc	caaaaaaaaaat	gtttagaatt	agaagtgcac	gttaattctga	120
gtaacttaag	tacagaaaag	agttagtaca	ccacaagcat	tttctacact	tttattttgt	180
ggtgattgtg	agacaaacac	agtccaaaca	atagacttct	tgtcctcccc	ctcccaacaa	240
ctatctgact	ccatagctca	tgcaccccaa	ttacagcagg	tgtcgggctg	gcataaaggc	300
ttcttaccag	gattccagtt	tatccttctc	aatccttttc	tcattctctaa	caaaaatgcc	360
acacatacat	gtagtgtgtg	gaggcaaaagt	cttctttaca	ctcaccacca	gggggcgtat	420
gggagcacaa	aagcctnaca	aaactgnntc	aggatcctgc	cttttcaagg	cccgggaatcc	480
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<210> 8339

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8339

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
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<210> 8340

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8340

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atggtactga	actgagcttc	ctgtcagcca	aaactagaag	ggaaacatga	ccaccacctg	180



acttgttgca	gaggcttttag	atctgagcac	ttggatctga	aaacagtttc	tcttttagatg	240
ccttcaaata	agggacagta	tccttgatga	caatacagta	catacattca	caattctcca	300
agaccatctc	tgtgtatatc	aaggttaacc	tggatgaata	tttctgcagc	aggcatgggg	360
taggcaggca	atatgaccaa	atatgtagtt	tggaggctca	aatgaaacag	gagaaagagc	420
tcaggaacca	tgaagcatgg	tgcanagtac	anggtcaagt	attctaacc	taagatcang	480
gtgcatgaga	actggagang	cctcaatctg	agacttanac	caaagggtgtg	gaatnacttn	540
cta						543

<210> 8341

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8341

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ggcgaataga	agtaagctgg	aacctcatca	cagagctcct	ttcttaccct	cagcaacaaa	120
aaggcttgat	cttagaagtt	caaaattgtt	ccatatggta	aagacacatt	cactgcctgg	180
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aactttcgaa	tgccctgaaa	ggagtgattc	agtaaangaa	nggggatgnc	nttaaaaaac	540
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<210> 8342

<211> 552

<212> DNA

<213> Homo sapiens

<400> 8342

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gtggacatgt	tttcatttct	cttggattaa	aaagctagga	gtagaattgc	taggttttat	180
ggtagctgta	tatttaactt	tttaagaaac	tgcccaacag	ttttctaaaa	ccattgtgct	240
gttttgtgtt	cctgccagca	cattgtactc	tggttgtttt	ttacatcctt	gccgacaatt	300
ggtattgtcc	acctgttgca	ttttagccat	gcttctggat	atgtggcggt	atctcatggt	360
ggtttagttt	gcatttccct	gatgactaat	ggacagtact	tttcatgtcc	ttttttcctt	420
ttaattggat	aggactcctt	tgtgcattct	ggacataaag	gattgtcaga	tttatggggc	480
acatatcttt	tnccactcta	taacttgcct	gttcttanna	gtatctgggtg	atganaaaaa	540
gggttanntt	tt					552

<210> 8343

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8343

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nggtttcttg	ttcttggtct	ggacttgcct	caaagtcacg	cggttacatt	cacagctggt	120
tcttggtctg	gatgactgga	ctctgcttca	tgtattttctc	acatcttttc	agtacattat	180
cccaggcatg	ttctcattgc	agaggagcta	tcccagtcac	acaagagttt	ttcacgcttc	240
tgtatgtgtc	aaatctgcta	aaacaacatt	ggggagagca	agtattatgg	ctgaattcag	300
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<211> 496

<212> DNA

<213> Homo sapiens

<400> 8344

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tgcatgtaaa	ccacttagaa	naatgcctgg	aacacattaa	ctttcattac	taatgttttt	180
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tcactcagca	aatgtgagca	aacaaaacnct	agagacttta	gtctgccagg	tctntaacat	300
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gctacaaggt	ttgggtcacc	aaggaaagct	gtcaaataat	gaagtgggta	agcagattcc	420
taaaaattgg	aacnntttca	gcagcagttt	cattcncang	gagacngagt	aatgccctnt	480
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<210> 8345

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8345

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tgagtatttc	cagccataac	aacatttatt	agttctctgg	taaacatttt	aacattttctg	180
aagaaacagc	aaagtgggca	tgtatcttta	atgtggagca	ctggggacat	atctggagac	240
ctacaactct	gaggaacaga	gacaagtgat	ttgggggata	ttctcgatta	acaagccaaa	300
gaatcaggaa	aatgggctgg	aagcgggtag	ccacacacct	ctctccctgt	gtggggcctc	360
taatatgtga	ctgatgcctt	ccttttctgt	gcctttgaaa	tctcatgcaa	gattggctat	420
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<210> 8346

<211> 525

<212> DNA

<213> Homo sapiens

09625469.072300

<400> 8346

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ttggcatggg	gtttgggtgag	agaacaaatg	ttggctttac	tataaaaaag	gntgtgtgat	180
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aaagngtaca	atttttcttt	ttactaatac	tgnaaagaaa	aaggggagacn	tataatgccn	300
agagttaatt	tgntctgaaa	caattatact	cttttttgga	gcctattgca	atttaagaag	360
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tttcacactt	aaaactttat	gggaaaagtn	ttgcaaataa	nggcatatca	tttcaatgga	480
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<210> 8347

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8347

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gttaatgtaa	aggacgctta	ggtgtggagg	gccagtgtc	agccgtctcc	tggctcagaa	180
caaggcactc	tgggctccag	ttaggacact	gagaggccag	ggaaaccaac	atgccctgga	240
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ggggcagagt	aggcccaaaa	gttgggggtt	gctgatgcgg	taagagcaca	gtgagagaaa	360
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tgggtcttcc	ttggnaccct	tgtgcaatcg	ggatcatcgg	ttcttttcag	tnganaaaac	480
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<210> 8348

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8348

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tcgtagtgta	ttcagagcat	tgtatgtgtc	tcaccaatgg	tacacatttg	gattaagcag	180
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tccttgaatc	tgggtgtgctt	ataattgctg	ggaaggcagt	gtaaacctgt	ggccattcct	360
atgcatgtct	gggaggacca	cagccctggg	gtggagcact	gacaggtttg	actttccacc	420
agaattgctt	gctcagctta	atcccataat	attcctttcc	cttagatttg	gtttctgnct	480
cggtaacttt	ttctctctgc	atataaaatt	tcatggctta	aatactttta	agtcngagat	540
tggnttt						547

<210> 8349

<211> 551

09629459.072600

<212> DNA

<213> Homo sapiens

<400> 8349

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ataattttta	cagaagaaaa	agctcacatc	tatctagatg	tggctatgtt	ccatgggaaa	180
aatttcagca	tccaaagtgc	aaagaaaaaa	tgactgtagc	ttttcttacc	acaaaaatatt	240
gacaatcttc	ccttatagcc	tactctttat	tgttagtgtg	gatgccaaag	gatgatatat	300
tgacctttag	aagttgggct	ccactggaca	aggttggggg	tatggggggc	aagcatcaga	360
atgaattcaa	ttttaaaaga	aaaactggct	ttgaccccaa	atgaacccaa	agttcagcca	420
gcggcacatc	agagataaat	acgagttgta	ctttcacatt	tacaagggtg	tgccctcaac	480
actattaaag	acctaatac	tcaaatacaa	gctcccatct	tccattacta	ggctctgncc	540
caaagggatn	c					551

<210> 8350

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8350

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taacacacaa	tttacatata	tacatacata	cacactatat	gtaagcagca	aatactttgc	180
tacttacaca	tattcctctg	gtggaaaaact	aggacactgg	gaaattcccc	tgctttccaa	240
ccttgggaag	gtaaatataca	cctctotcaa	caacttttta	aaggatgaaa	tgtgtagaaa	300
catgtaaaaca	acacaacctg	cttttagatct	atacatgtta	ttagaataaa	gaaagaacgc	360
tgtcacatca	gtgacagttt	atttctcaaa	gaaaaaaaga	gataacattt	gaataaaaaat	420
gcaaaactga	agtacagtta	atatgatcaa	aattgtttgtg	tcatgctcca	tggagaaaatc	480
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<210> 8351

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8351

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aaatttggtg	gagcttcaac	tcagtaatta	caatcacaaat	gcatctctga	aaggccctgc	120
atttggaggc	agagtaattc	gcaaagatga	tagttttttac	atatgtcctg	ttacctacac	180
caatataatt	actacattat	cttataaaga	caaacagttg	cttcaaactc	tttaaaaaat	240
atatatataa	tgagtttccc	aaagactcga	gtctatatct	aaagatgagt	aaaaaaaaat	300
ccattacttc	cctagggtca	ctttcttcct	ttactcctgc	ttaaatgcaa	aagctgatag	360
tttctgattt	gtagaaaaat	ctaaagggtt	ctgcttttta	gacaaattca	ggttcttttt	420
tgctttttct	tcctggtttt	ctgtttcatc	actttcatca	accacacgtt	ttcgcttctt	480
tgcttcagtt	ccttcacttg	gccggttctc	ctttggcttt	ggtagcccac	accctttctt	540
tctttaagtg	acaatacctc	tnaa				564

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<210> 8352  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 8352  
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taatgaatga ataaacctat ttgtttgtat ataaatggta tacttggaag agctcaaaac 180  
ttttgtatta cttatatgtg cacatacatt agacacttcc ctatcatcat ttttactccc 240  
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cacaaatcct caatcactgt tgggtccatga aggtttactg cgttcattta ggtgctcact 360  
cctccctgag gctcattccc tcctaaaact tctgagcacc ccggaattac tggcccccattg 420  
tctctctctc tcctttacca agacagctgc tgaggctgct gctatgcagg tctacctgcc 480  
cctntctggg cctctgcttg ctttacacca atngncctan cccagggtggc agtatctggg 540  
cccctccatt tt 552

<210> 8353  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 8353  
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taactttatt tacatacgaa gcaaagaatc aatgcatatc cttggttcaa ctatagtatt 180  
agccatacta catgaaataa aatgggtgctt gcatacaaaa acttgtttgtt tgtaaaggaa 240  
tctgatttca gattaaaata cctaattgtt tttggaaaaa atttttaaaa agaatacaca 300  
tttatcatga ccaagacacc tgcaccatat tttccattcc tcacagcaca tttatttcag 360  
taatcctgtt atgtcggttc ttagcatgag catagtgtta cacgattttc gtacatataa 420  
tcacatccaa aacaagctct aaaattttaa ttgnaaacat tctcatatgt agaaatattt 480  
taatngggna ttaagggttg ctaactggtc aaatttggaa gatatttaat gngacgttat 540  
ctnaactggg naggg 555

<210> 8354  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 8354  
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tcaataagtg tgaattctcc aactcttctt ttaatcccat tttagaattt aatatagaga 120  
tctctgattg gcaggaacac tagaaataaa tgttccatgg ccagtagtgc aaatggggga 180  
ttgtaggttt tgaaaaacca ccctaagcca tattaagggg gttggaagaa ccatcgaagc 240  
ctaaggcata gaagaaaatt tgggggttaag aaagatgaag aacaaaaaac agctttattg 300  
cttatacatg accaagaaaa ggaaaacatg gcaaaaaaaa aaaaaaaaaa aaggcaagat 360  
gtgtattcct tgcaaaagaa caagcctgct aacttgggag gaagggaagg tcaggaccca 420

aatagagcca	atttcctgga	natggcctgt	tctactggca	cattttcctg	agctgggctt	480
aaaactttca	gggccttttag	ggcccanaac	catgctgcta	aaaatntttg	gccaagttct	540
ttcacaaaaa	at					552

<210> 8355  
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 <212> DNA  
 <213> Homo sapiens

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aatacacatt	tgggttagtaa
gatttccttg	aacaatatta
nnnn	

<210> 8356  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 8356	
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ccagtatcag	ttacaaccgt
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taaaaagaca	aaagaaaaca
gagtcctcaa	actttgnact
cntaatatat	aacattaact
tagataaatg	aggcagtaac
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gatgggtant	ccgntccaaa

<210> 8357  
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 <212> DNA  
 <213> Homo sapiens

<400> 8357	
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acaggcacat	gccacaatgt
catgttggcc	aggctggtct
gggattacgg	gtgtgagtca
cttgtagagg	agcaatggan
aatgcaggaa	cctttctttt
aaaccagtca	gaggcccaaa
ggagcctggg	gtcaccttgc
aatgagcctn	ttttacgggg

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<210> 8358  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8358  
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agtggggggc gtgtcggcga tggggctaga actccacctt gcaggccggg aaggcgtcat 120  
cctgcatgga caccatgctg ttgctgcca acaccgtgat gccagcgcc tgggtccggg 180  
cgtgcgtctc tgcgtaccac gtatgcatgg ccaccgagtc gaaagtgggg atcagggtca 240  
cctgcaggtc acgggtccaa tgctgcttgc tggccagtag cgcgtccagg acggcccga 300  
tgccttcctc cttgcgctgg tcctggccac tgatgacgta gcagagcgcg cgcacgcgct 360  
ggaagaactc ctcatccacc aggtggggcg tgctcccgct gggcaggtag gccagggtcca 420  
ggtagaccgg ggacttgggt ggggtggctg aaccccgcc cggctgntgg cttaccccgc 480  
acggcctnga atggcaatct tgggggggta ngactttntg gaaagggtgc cgggcttcct 540  
tttantgggt tanttcng 558

<210> 8359  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8359  
agggaaaagt atatttacta gacttccata atccatactt acttttaaatt caatctagaa 60  
ataacatgac tcatattagg caatatactt tgaagatctg tacaacatag taatcacagc 120  
agggtcttgc taactcacia atttagcata catgctgcaa aaacatctct cctggagtcc 180  
caagggtctt caaatgttcc accaggggca gtcaagacta gattcacggt gctctcttca 240  
tcatgcgcac aaaatgtgtt ttcccataac accatattat cacaagtcta tgaacaattc 300  
tggttagcta aggtaggcag tatagaactc ttacaaata acagtatttc aattatgcc 360  
tgtaagtaaa caatttgctg tgaactgtcc tgtgtatcta atcatttaaat acattgcttc 420  
tataagaaaa tactatttgn taaatttttag tcataatttc attggttctc atcatagact 480  
gcagatgcca acattaatgg ngaaccaaat ggtaaatctc aattttcttt gacattttat 540  
gctttggaat ttcanaan 558

<210> 8360  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 8360  
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tcaagattgc aaaagacact ttttaaata gagacttcta tctactcatc cattttaccc 120  
tatgattcat ttccctaccct aacagaaaatg atgaaacagt ttttctttct tccttttctt 180  
cctcctgctt tgaaagggca actgtcatga gggatatctt aacagaatgt gccaatat 240  
ccttgccagg agagcagtag cttcctactg gctaaattta gagagccctt ggcatctctt 300  
ttggtgtggc tcaaagatta ttacaagctg aatctaaaag attgcaacct actacttgca 360  
atctgtctcc ctgggctcct cttttactna caaactccac tctaaaacaa ccttaaattt 420

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taagcactca	ataattgctt	tagaaatgaa	gggatctaaa	ggtaattacc	ttacccttgc	480
aactattttc	tnataagaa	tcttcaaagg	tnataaaaaat	tntccggatg	aagaatggcc	540
taatcctaaa	anggggtgga	t				561

<210> 8361  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 8361	
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tctgcgaagg	gaaaccgcgc
ccgctgtcta	aacagagcag
gccaccagtg	tcctcagaac
cacctgtttt	agaaatctaa
tagaccatga	ctgtttgttt
gggggagagg	gatttcaacc
gaacaggctg	ttttgggaaa
acgttctgag	tacggatcgn
tgagggaacc	tnntaa
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	300
	360
	420
	480
	540
	556

<210> 8362  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 8362	
gtgattttga	cattttattaa
tattacagta	aaactctgcc
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aatgtataga	gaccaaacgt
gtgggaacta	accccaatag
cttattgttc	tacatttcaa
tttctccttc	aaatcatttt
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ttggaga	
	60
	120
	180
	240
	300
	360
	420
	480
	540
	547

<210> 8363  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 8363	
cccaaattac	caagaacctt
attttccatc	cacaaaacgg
atccctgagg	aactgccaac
ggaacatttc	ctgagcccgt
	60
	120
	180
	240



tcaaaaggat	atccaactga	tgcaagtttc	ctgtcatgac	aagaagctgt	catgttcagt	300
agcaccttac	acgaaagggtg	gggaaatagg	ccgggcgcag	tggctcacgc	ctgtaatccc	360
agcacttttg	gaggccgagg	caggtggatc	acctgaggtc	aggagtttga	gaccagcctg	420
ccaacatggn	aaaaccctgn	tntntnctaa	aatnncnaaa	aa		462

<210> 8364  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

<400> 8364		
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cccaggctgg	gcaggcaggg ggtgggaagc aggacagggg gcagggaggg aggggtgggag 180	
gcagggagga	aatggcaggt ggctggaaca caagaaagca aaggggaccc agctggtcct 240	
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cacggagaag	agacagggga gcagggtcca gcagcaggag aagcagcagc agctgtttcc 360	
ttcaccaata	aatatacttc attaccaagc tagaagagag ggggtgggaag agggactggg 420	
gtgggaagga	agggggagaa actgccacct gtgttgctgg gattaaagca atgagatggt 480	
gccaganccc	ccaccactat nctaaccttc anttggcttn ttnaaactgt gaaaaanctt 540	
tttaaattgg	cccccttt	558

<210> 8365  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 8365		
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agagagtggc	tcctctccgc aggcaagtca ttccaatgtc tctgcaggtc tctgaagctc 180	
gcagcagagt	gtagctcctc tctgctggca ggtggtctct gtagctttca gcggagaagg 240	
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gcgctgctct	ggctgagcct agggttttta tggacctcag cggggaagaa gtgtgtgctg 420	
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ggcanccac	ccccagaatt caaggccctc ctggcctgaa ggtggggnc	tactggggac 540
cccanccctt	cttctgttg cant	564

<210> 8366  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 8366	
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tccagatac	acaatttagt ccaccagaaa catgggaggg agcaaaggaa agagaaagag 180

acagaggaag	gcacaatgat	aaataattat	ctgcctcttc	tctaataagg	tagtggctcg	240
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gttaaaggaa	aggaggtttc	ttagaaggac	tggatctaata	caatacatat	ttgatgttca	360
aatgtttgac	tttcaaacaa	aattttttaca	gccaaaataa	aatgaaagaa	atgatactga	420
caagctctct	tgccatgccc	ttgtcaaagc	acccacagaa	agaataagtg	caaaaaggtag	480
aaaggccctt	cccttcatcc	aaggaaacat	ntncatggga	gttntgcagc	cgacttcctt	540
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<210> 8367

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8367

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acaggaatgg	gatggggggt	gggggggaata	aaacttctta	tgctatatag	gtcatgtact	180
gtgagaaaca	agaatacaaa	actatgggtt	taaaaacaac	atatacagaa	ataatcgcca	240
atctctgtct	acctccacat	cattntgtca	tagaagttca	ttgtgattaa	aaagtttaaa	300
agtttttaag	agaaaaggta	gattgagaag	tagaaaggaa	gtaggaagga	aattgtgcaa	360
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attttccgtg	ataggaactg	aattttaaaat	tatcaccttg	gtagaattgc	ctggaagatn	480
cagcaactaa	aacctggatt	aatgcccact	ttcttaaaaa	atgcccatta	actnttaacn	540
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<210> 8368

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8368

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aaagtaacaa	attgtttgctt	atccatgtcc	actcaactgt	acaaggttta	tttctaggac	180
aatttcccag	ttctctggga	aggaagttct	gtggatttat	accttccata	aggggtcaagc	240
aaacatgcta	agagctgata	ccatcatgtt	tttatactaa	cagccgagaa	aggcttttaa	300
agaacactct	ctttcaggcc	aatgttacag	cattagtggg	ctcatagaca	ggatgtgact	360
tcatcaaagg	aaatgcttct	ctcctcttgg	tctccctaan	gtcctcctcc	tagtacacag	420
gaggagtcc	ccataataac	accctgggtt	ccaacanaat	ggnggggtag	attatcaacc	480
ccncaatgn	gaaaaagaaa	ctggaccccc	ttaccttacc	aaatccattc	cagaatctgg	540
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<210> 8369

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8369

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tggccccctt	gacaggactc	atccctacca	acccccacc	ccccgcccc	ggatttctgg	180
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<210> 8370

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8370

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ggaggaaatcc	agctggaaat	gccactaacc	ccacaatcca	gcacctgaga	gaggaagcca	180
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ttttacatta	tttggtaatg	aaagccgttt	tttcttcctt	cccaggctt	atgtgaagaa	360
gcccacgccc	actctcaaca	aaacagactc	ctccttggga	agcatctcca	gccctgggac	420
agacacctcg	ctgcgactta	gggaggggaca	ggattagccc	aggaataaaa	gcattttaga	480
aatggtttct	gcaccttcan	agctcaacaa	ttcttgnacc	ttttanatgg	aagggatcna	540
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<210> 8371

<211> 450

<212> DNA

<213> Homo sapiens

<400> 8371

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tatgtttaca	gtcataaaaa	aagaaacagc	ctggagagaa	gtgggggctt	tgaggatgga	180
gagaagacng	gggcagacac	agactccaca	tctggccctg	tgggatttgg	ggttcccata	240
ctgatccaag	ggctattttag	atcttcagag	ttaggtgaca	atgggatttg	atttccttag	300
ggaacaaact	ttgtgaaact	gatcagaggc	tgagatccag	tccttagtat	taagtggggg	360
aggtgagggc	aggnaatgtg	aggggctggg	ctgggtntta	gangctgaan	cccaggantc	420
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<210> 8372

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8372

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tgtgacgggt	ggggcagctc	ccaggagcaa	ccgtgaactg	gggggggtcca	ggcctgagcc	180
ccaggtagtg	tcgctgggaa	ggggcctctg	tggagggccc	cggttttggg	gacacagcac	240
cagcacatca	gggtctgtca	ccaacacgat	cacatggcca	gggcggggca	gggagagctt	300
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ggccttatgc	ccggaggcgg	gaaggatggg	gcttctgcag	tgtaccaggg	ggccttatgc	420
agaggctgaa	aaaggagggt	gggccctgaa	aaggacttgg	gggtgtggca	acttctggcc	480
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<210> 8373

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8373

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gcagtgagct	tgttgaaggc	atctgctaata	ctctggtaaa	taactgggtc	ttgtctgactt	180
gatagtaatg	tttcgaccag	ttcagaatat	tcagcctggg	gcaaacacac	caacgtgtag	240
aaagcttcgc	cagccgcagt	ggatcatctct	gtgttgtgct	tttgcaaaac	cagcatatca	300
aaaaccagct	taagaaagtg	ccgtgttgct	agaaaaagtg	gtgagtctgt	ttcttngngct	360
tttgcacact	gttcagctaa	cgggtgtcaag	gcctncaggc	aaagctggca	aaccttcgaa	420
ctcattgatg	catttcctaata	tctagggagt	acatcagact	tttnaacaga	tcctcangaa	480
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<210> 8374

<211> 521

<212> DNA

<213> Homo sapiens

<400> 8374

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attgtaagtt	ttcctatggc	cagggaatac	agctttgtta	gtagtccatc	tttctaaaac	180
tgaggtaact	ttctaaacat	taaaagtctt	tagtaacata	ggggaaaaat	taaggcttaa	240
ttacttagaa	aacaaaatat	cacaattaca	gaagcacatt	taattacaaa	aattataaaa	300
ttatattaac	tatatgtagt	ttttaatatc	tagtatcaaa	ataccttttc	tactttggta	360
actaaatttt	tgagattaag	aacaaaactag	ttcaatcatt	ctcacatata	aaaatttcat	420
ggttatatatt	attaaaaacn	aaataatgcc	aggtctggtn	aaggtaccat	ttttccccag	480
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<210> 8375

<211> 527

<212> DNA

<213> Homo sapiens

<400> 8375  
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 ccgagctcgg gtcacggggc gcccccgccg ccctcctcgt cgtcctccac gtcgaggccc 120  
 gggatgccgc ggatctggcg ttgcagcagc ccctcccagc aagggcacgg cgccctcctc 180  
 ctctcctctt gggggcgggc gcggtggcgg caacacggnc ccgggggctg gctctggggg 240  
 cacgggaggc tgcgccggca cgccctctgc accctccgag atccctgccg gttcgccctg 300  
 cgccccctcg tccagggcac cgnccctcagc ctgctcctgc tccttctctn ctcggggctg 360  
 tcggtgaaag ggntctcgcc cttcaggtaa cgctccagct tnttgctgat gaagcttgg 420  
 gttgagaata ctggggggca ccatgaagga ggactttttg gactgggtcca atatgagcct 480  
 nccgnttccg gttgggaatc catgggcctt aaanncttnt ggganna 527

<210> 8376  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 8376  
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 aacatcactc cattttttcc acttgttttt ctaaccctgt ttttcccca cagtatcatt 180  
 tgaaattaat aggatgaatg aggcaaatat gagacgatcc agttgatact actcagagca 240  
 agatagtaca gtacagtgtt tcaggggtga tgtctggaca taaaatgaac ccagtcaagg 300  
 tcctctgaca ccaatgtatc cactatcaag taaacctgaa agaaaataaa agattttattc 360  
 aatagttcca gtaaaattgg gttggaatac aatacacatt aggaatttag cttctcacgg 420  
 gtggnatctg catcttaaga ggtctgagtc ctatgaatat tcattcttag acaattcatc 480  
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<210> 8377  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 8377  
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 ccattcttta aagaaaaaag ctttaaaaac aaaattcaag tgcaaaaatt tccagtagtc 180  
 ttctacctc cagtgtaccc cagcaaaata ttcatagctg tgctgttagg aaattaatca 240  
 accataagct tcaattaccc actttttttc ttccctaagg tgtctgtact tatgaaaaca 300  
 tatatagcat attcctgaaa gtataccata ttctacaaa gtaagggagc ctagaagcaa 360  
 cagtgatcac tgcctttcag tgtctccaac cccatgtaac cactgatagg ataattcagt 420  
 ctctaagtca tttgatctac ccatttctta aatacagcga tcaacttcta ttttaacaaag 480  
 ctagtctggg gttactaaca cgttcccca aaatcaatag ggcctg 526

<210> 8378  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

09629469.072800

<400> 8378  
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 gacttacatg tataaaacat gaacaccccc aaactctggg gagtattcca gaatggggca 180  
 aaagagaggc tgggaagtac catttactac acaaatgtaa taagatggac agaaaccttt 240  
 attagagttg gaaaatcaag ttggaaacaa acacatgagt tcactactta atgcatttaa 300  
 ttccaacccc tcattggaat catcttggtta acatttaaga ttctacaaca gttataatgc 360  
 gacgattcag aggtggtctc aaagttggtta cagtgttaaa aaaattatag taagcagtat 420  
 aaaattcaat ttattatggg gccagggggg attcacaacc attctttaaa accttagag 480  
 ccaaccccng gcaagccttg nggcttacac cctgnaatcc cagacttttg g 531

<210> 8379  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 8379  
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 ggctgctggtg tcatgcaccg cctaagactc agaggtgaag atgggaagac ccagccctaa 180  
 accagactcc tggaaggggc tgcgtggtca cccatcgcct aagactcaga ggtgaagatg 240  
 ggaagacca gccctaaacc agactcttgg aataggctct gtggccaccc atggccgtaa 300  
 ggctccggga tggagacagc atggacaggg acctngcaca aaggcatgtc gggagggcct 360  
 cctttccaag gnanagnccc acctgntcct tntaagccn c 401

<210> 8380  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 8380  
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 cgcatatacc tttttctttc atgtgtataaa acaaccatgt gaggtatttt acagggtcaaa 120  
 agaaaacaaa aactacttcc ttattcagtg taaaggaggc ttataagcat tccaaaataa 180  
 aaacaaacaa aaaccagaca agtacatagt ctatttccat ttctttttat acatcctctc 240  
 tatatatcac acatttagca ataggagaat agagaactaa ttcaaagca agggaatctt 300  
 tttttagat tctgttgaca gatgctcttt aacctaaaca ttttctactc taaacataac 360  
 ggacttaatt gncttcagta cgtgaaataa ttttaaggng atctagtact ttgaaaattt 420  
 cattcactta agaacactta agctggaaaa tagcactatt tttcagangc aattctnaac 480  
 ngnaaaangn cat 493

<210> 8381  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 8381  
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008270.69462960

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agcctcccaa	gtagctggga	ctacaggcgc	ctgccaccat	gcttggctaa	tttttttgta	180
tttttttagtg	gagacggggt	ttcactgngt	tagccaggat	ggtcttgatc	tcctcgtgag	240
ccgcccacct	cagcctccca	aagtgtctggg	attacaggcg	tgagcaacca	cgcccagctg	300
tcagacaaaa	tttttaagaa	aacaaaattt	tttcagaat	attacattac	aaaaatcaat	360
gaataaatga	actacactgn	aactttaata	cttattccat	atgaaaaacc	aaactggttc	420
tggcaatttg	attgatctct	tgagaagttg	cagtgcattc	attccatggg	tnaaacccgg	480
tggtaggcat	tggcgntnct	gctgctgggt	gaatggcttc	tnggcttggt	tgttgttgga	540
aaccaa						546

<210> 8382

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8382

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ctcatgcaac	acgacgctca	ccgcggctcg	ggccgtgggg	ccgtcagaga	aaccttttta	180
aaaaatggag	atgaatgtta	cagaattgga	caaccggaac	tgcttttcaa	aaccagagga	240
aggaggttct	tagccgttac	tcagatacca	atgctgggga	gggaggcctg	acttcagcaa	300
cagctgtggg	tgggctggag	gccggcgcg	cttggggccc	cccacgccag	cttgtctnaa	360
ccaccacctg	tgcggggctt	gcttcaagg	gtcaacaaga	gcaactgatg	gcttgccact	420
ttcangcccc	gagagacaag	gcttacgtac	tttacttgca	gcccagggtc	aagcccntgg	480
aaggggtcct	agctccgttg	aattctgnat	nccaagtggg	caccttgagg	aanggtcttn	540
aaggaangct						550

<210> 8383

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8383

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tccaaaatag	agctcttggt	ggattctggt	cataaaattc	ttttttaagc	ttgttaagat	120
cttataaaat	aagaaagttt	tccaataact	ttagaaaaat	tactaatcat	taataagtcg	180
attttatact	caaagtaatg	gcctaacatt	ttgaaagatg	aaacaacgct	cctcttttga	240
acatctaata	tattaagtaa	gctcagtgtc	ccaggcttca	gaggagacag	agaagtcctc	300
atattgcaac	ctgaccagat	gactctggga	gtgaattaaa	tgcttaaaag	aggtcagtct	360
tgcaaatctg	atgaagcaca	gaatacaggg	gaactgatct	gattctgata	aaagatacat	420
tactctcaga	aaggggtgaa	gcttaaaatc	ttgcagttct	tgggcaagga	aggagtgccca	480
ccaggcaggc	accaaccggc	ttgaaaggaa	aagcttgagt	gaattcaagg	tctattggga	540
gang						544

<210> 8384

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8384

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	534

<210> 8385

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8385

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gtccagaata	caatgcaaag	tgaaaaaagt	tgcaaaacag	tacatataat	atcccatttc	120
atttaaaaaa	aacctatata	caaattgtgtg	ggatttcata	tatgtatata	tgtgtatatt	180
aatatataaa	cacaaacaga	acaacatctg	ggaagacaca	caccaaaatta	agttattctt	240
ggagaatggg	agtggtgaga	gggactaagg	aaaaatcttt	cactttttac	tttacacatt	300
tatgttttgc	ttgaattttg	ttggctaaca	ttaataattt	ttgaattttt	atcacaataa	360
aacattttta	caaaataggc	acttttgtaa	tcagatcaat	agagttataa	tgnatgtgtt	420
ttaataaaaa	atagctccat	gggggctggg	ccgtantggc	tcacacctgn	aatcaatccc	480
aacactttng	gaagncnaag	gnggccaaat	atccggcaag	ganttgagaa	cagctggcca	540
a						541

<210> 8386

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8386

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gataaacggg	gaatatattg	ccatggaaaa	aaatgaaata	taggttgagc	attcctaata	120
cccaaatacca	aaatactaca	aaatccaaac	tttttgagta	taatgatgcc	acaagtgaat	180
aattcaacat	acaaatactt	aatacaaaact	ttgtctcatg	cacaaaattg	ttaaaaatat	240
tgtataaaaat	taccttcagg	ctatgtgtat	aagatgtata	tgaaacaagt	gaattttgtg	300
gttagactct	gggtcccata	tggaagacat	ctcattatgt	aaatgcaaat	attccaaaat	360
ttgaaaacat	ctgaaatcca	aaacacttct	gggtctcaagc	attttgggta	agggaataact	420
taacgtaaac	ggacacaagc	tacaatatgg	atggactttt	ggtggtaatg	gttttttgaga	480
cagggcttgt	ctgtccccc	ggttgaaatg	caanggnnca	acatggntac	cgtgccn	537

<210> 8387

<211> 501

<212> DNA

09629469.072800



<213> Homo sapiens

<400> 8387

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atacattttc	aagaaattaa	tatgaaacat	taaaatttac	ttcaaaaatc	caaagttttc	120
tagatcattc	ccatctcacg	ctgctttaga	ggtcagttca	caccttctgt	gttcagatga	180
gcggtctgaa	ttctgaacac	tgccgtcttc	cagccctaac	gctgggctgt	ggccctcttc	240
tcctaagccc	acggctgggc	ttcccctgtg	cccagggtca	tggcggactt	naagccaggc	300
cggctgcccc	gaatcacact	cagggttttt	ggacgctcaa	gtccacagat	gctgagggtgc	360
ccagacgagg	gtgagcaggg	agacacatgc	ctcggagaac	gtgcccaggc	tggccaggcg	420
gctgcnggaa	gcttcttacg	ggcanaggaa	aacntcttgn	gccttnccta	tcgatctcca	480
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<210> 8388

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8388

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agcctcccaa	gtagctggga	ttataggcat	gtgctaccac	acctggctag	tttttgtatt	180
tctagtagag	atggggtttc	accatgttgg	ccaggctgggt	ctgcaactcc	tgacctcagg	240
tgatccacct	gcttcggcct	cccaaagtgc	tgggattaca	ggtgtaagcc	accactcatg	300
acccaggctc	ccccattctg	atgccttctc	ttgccccaca	ccatacagct	ctgcctggag	360
cctggagggt	gggtccagag	tggctcctgg	ctccccactc	tnaacaccag	gaattcacca	420
gccaggagg	ctgataagtc	tgggaaaact	tctggggccc	ggctnttttt	aagattncat	480
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<210> 8389

<211> 467

<212> DNA

<213> Homo sapiens

<400> 8389

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tagtaaaaa	caacatggct	tggtaaaatt	agctcttttt	cttgacattg	gcaatgataa	180
tacaatgcct	gtgggtgtata	attgtcatgg	ctgacttata	aatccctaca	gatatgtggt	240
tacttctcta	ctttcccttt	ctttggcttg	ggcaactgcc	acgttgatgc	actggagcca	300
ttctgctgca	ttcttctcat	ccttggcctt	aaagacatag	gttttattgn	ctgtgaagat	360
ttcgaaagcc	ccnnggagaa	aacggccctg	cgtttcttgg	gcacaagcct	tnacactctg	420
gcttttgctg	agtctattgg	gcancntcan	ggnatctttt	agactttt		467

<210> 8390

<211> 540

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 8390

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tagatcaaag	gaatgccact	ttgaaaaagt	tttacgggtca	gctgttaatg	aaatgactta	180
cattttttgga	aggactccta	ttcggtatgt	agtctgacct	cgctactcgt	agtagttccc	240
tctagtatcc	ttgccagtct	ttggcttcta	agatctgaga	atttctgggg	atggggagtt	300
cgagtcacaa	tattaagaac	tagtttgaag	ccagctccag	ggtagtctgt	ctttaagtct	360
ccactactcc	gctccaaggt	gactcataag	gtcgggtccgt	caactctgca	ttatatggcc	420
tcaacaacga	aattaaaaca	catactttta	ccctccanan	ccttcttttg	caggccaata	480
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<210> 8391

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8391

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gttccaaaca	catgtacaca	agttttttct	aaaatcagtc	agaaataaaa	taccttgtct	180
ccctttcctc	agctgcttct	tgtattttta	ttaaaaagaa	acaaagaaat	ctgtaaacact	240
gaataggcaa	caacttattt	cttgagaaca	taaaagtaca	gtaatatcta	cagggtgtact	300
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cacagaggag	agaggaggtg	gcacagacct	ggtctataga	tactgacagt	tttngggcat	420
ctgaatccca	gccaccagaa	gcagggtgagt	agctactggg	gaaagacagc	ntttcagaag	480
ccagctggct	aatttgggga	aaatggattc	ttcctggang	gcttttttga	aaatttatgc	540
c						541

<210> 8392

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8392

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atataagtct	acatttaaaa	aagaaaaagc	aattaatgac	ctccccaaaa	tcacattatc	180
atcaacaaga	tttttttcta	aaagttacgg	ccaatccaat	aacaaaaaaa	ttcacagtta	240
ttctgcagac	attttaaaga	tgcaggaatt	gnattgcaca	ttatataatt	ataaaccata	300
acaagcagtt	atatatttta	atctagtttt	tcacaaaatt	tacattatca	tgcaataactt	360
cactgtcaca	gaatgatgga	actagaacag	gttaacttac	aaacttttaa	ttatagccac	420
aaatttagaa	ttatttttaa	gntatatatt	aaattattat	actaaaaaaa	cacttcaggg	480
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<210> 8393

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8393

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gttttttttt tttttttgat attcaagcat gttctttttat taagcatagg atgcgaggca   60
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agggattaac taacgtttta ttctctgccc cccaaaatat cctgtgtatt ctttaagtata  180
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ctctaaagaa ttttttgcat agcattagca aaggagtcta tgacaagtac ttgcccacct  300
ggtagttctg cgtattctac tccctctggg tgtcactgtc atcctcactg gctgggacaa  360
ggttctgaga ttgtctctcc cagcagttgc taagctggct cagtcttggt caggatgaat  420
gaaacaatta tctcctggat caatgcaaca aggagcatga acctttgctt tttctttcct  480
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<210> 8394

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8394

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ggaaaaccat tcacagattc aacattgata ctgtttttgt gcttggttac aactgaagg  180
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tgaatcactc catttctttc tctttgaaca tcatcatcac aatctgtact gtcattcttc  360
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ggtggaataa atccattggg ggtagatcat ttgaattatc cctggatatc atcttcgatg  480
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<210> 8395

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8395

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cagtttgagg gttctgcagg gagttgacca cagaagtggg agagtgaagg gaagaagtgt  180
gtcgtgaata aagcttggct ggttttcaga taaaaggctt tgcgagtggc cagggtgtgt  240
ggctcactcc tgtcacgtcc cagcactttg ggaggccaag gcgggaggct catgagggtca  300
ggagttcgag accagcctgg ccaacatagt gaaaccccgt ctctactaaa aatgcaaaaa  360
attagctggg catggtggca ggcactgtaa tcccagctac ttgggagggt gagacagggg  420
aatcacttgn atnccgaagc aaaggttcat gagcttaaaa ccgccnttgc atttccatnc  480
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<210> 8396  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 8396  
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tacaggtgac cgccaccacg cctggctaata ttttttgtat ttttagtaga gacgggggtt 180  
cactgtgtta gccaggatgg tctcaatctc ctgacctgt gatccaccag cctcggcctc 240  
ccaaagtgtc gggactacag gcatgagcca ccgtgccag aatgttctgt tttgtttgt 300  
ttgtttgttt gttttttgag acagggtctc gctctgtcac tcaggctgga gtgcagtgt 360  
gcaatcacgg ctactgcag ccttgacctc ccaggctcac atgacacctc acgacagcct 420  
ctggagtgtc cctncacttt ctttcttaag ggcccctnaa ggacatgtca aaaggcctga 480  
gactacttgg ggggaagtct atgggcaagc aggcttgcca naactgaact tgncccttgcc 540  
ctgg 544

<210> 8397  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 8397  
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agcccctctg ctccacccat gccccccatg atggcacatc tgtatgaggc tgaggcatgg 180  
ggggcagtgat gaagaacagg ggcagggtcc aagaaaaaga agaaaaaccc ttcccacagc 240  
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gtgggtgana ggtgganagg cccgacacag ggaggggcct anaggaaaaan ggggtcccaa 420  
nggcccttgc catgggggaa ccttgcccc anctacagct tggctccttg attcttagag 480  
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<210> 8398  
<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 8398  
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atggacacca tgctgntgct gcccaacacc gtgatgcca gcgcctggng ccgggcgtgc 180  
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agaactcctc atccaccang tgggcgctgc tcccgctggg caagtaggac aaggttccaa 420  
ttagaccggn gacttgntg gggttgctg aaaaccnng gccggctgct ggcttaccac 480  
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09629459.072300

cggcttttct

550

<210> 8399

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8399

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gaaaatgtta	aaggaaagct	ttcaatacac	caactgaaaa	aggcatttct	aattggccaa	180
ccaaattatt	cttttagatt	atttttagcca	aataaaaaga	aatttacaga	tggataactg	240
aggtccacta	acataaggta	gaaacaaaagt	ttaagctaaa	aattaaatct	atattttgtt	300
gcagataaat	gtgagattta	cctacagcaa	tittctattg	atgctaaatt	aaaagcatga	360
attgacatcg	tctaacagaa	atggtttgac	agatattttc	ttggctttta	aatgttctta	420
cgcataatgca	tagaaatgcc	atganggata	agaataatct	tctggattgg	ctgtncagtc	480
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<210> 8400

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8400

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gacataccag	gcggtacaaa	ctgaaaactt	gagtaaatta	acattgtttt	acattaatat	180
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cttctagcca	aaaataaagg	cataatat	ataaccaggt	atcaacttta	ctaaaccaca	360
atattttgaa	actattaatg	atacctaagg	gtattttacat	taaaaaggca	acatgcattg	420
ngttggttta	tctcatgact	gggtatgcac	acacttggtc	aaagggtttt	taaaactata	480
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<210> 8401

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8401

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tgcgttgcca	acacaacatg	acagtagatg	tcacacttag	gtttgcaaaa	aatataagca	180
tttggggttc	atttcagtat	tgggtctaatt	taaataaatg	tgaaacgagc	cttaaaaaatg	240
tactttccag	tacttttgggt	atttttcata	aatatttaga	taaaaaagaa	agacaattca	300
tctccttttag	acagacagtt	cagggttaaga	ctgtccataa	ttttaactat	ccctttcctc	360
ccaagtcaca	tttttggtag	gactaaatat	atcatactct	tggcagttcc	cttgcttggc	420

tttctcccca	ttctgagttt	tgaattttct	gcatgactgg	attcaccctc	caacttttgg	480
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<210> 8402  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 8402	
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aaaacaaaca	aagaagtagt
gttggtgttt	cagttttgac
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gaaataaatt	taaattcatg
ttggtgtgcc	agaagcagtt
tatcccacag	aactcacgtg
tcatcatagc	tgctttaaga
tttttggtgc	tnaaaatggt
ccc	

<210> 8403  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 8403	
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tcacagtaga	atataatggt
tgcacttagt	gcttgaccag
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aaaccaggag	ggtcccaaga
gccactgtt	agcccctgtg
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<210> 8404  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

<400> 8404	
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ttgttataaa	agtgtttaa

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gaaactgcaa	agaaccacag	actagttttt	aatatcaagt	ttccatacaa	aattgtccaa	420
gaattttatt	gcaatacctt	acatgtgaac	tgaaataaac	tttgcaaact	caattatact	480
aaagtttatc	tggaatttca	atcancttac	tcataactca	gatgcttttc	ttcattnt	538

<210> 8405

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8405

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gtttgttgaa	ataaatatgg	aaataaggct	gagcaagaca	gccaagccag	ccaaactgaa	180
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tgattataaa	tgacctgcag	agagacaagg	agatagtgga	tatgaagggg	agatggtggc	360
atggangcga	ggggaagcag	ctgctgtgga	ggctgcagct	gctggtggcc	agcantgggg	420
attactatcc	aaaagcaact	nttcctgctt	ttctgacccc	acantaagcc	ctcagaagaa	480
cctataatta	ttctgggnga	attcaatgan	tggaaanggg	tcaaaagccc	cccaaagatt	540
naaaant						547

<210> 8406

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8406

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aaagaggcca	gttcaacatg	gcctctaccc	tggtagaaac	aaaaagtga	aagagaagaa	180
aacagaaatc	aactaagagg	tgttgccagt	gtctctcagg	agtggggccc	tggctgttgc	240
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cacatcttcc	tcaccccggc	acatccacat	cccaacttag	gtgtcatgga	aatctttcag	360
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nggatttnaa	caagnttttt	cttgggtccg	gactcctgga	atatgcctat	ggggaggggg	540
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<210> 8407

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8407

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atacagctca	atctgtgaagt	gtccaagatc	cagggggcag	gttctcaagc	aggaagcctc	180
aggcactctg	gctctgtggg	gacctccctt	gggcatctgc	ttgagaatct	ggggaaggga	240

cattatcagg	gcaggtcctt	tctgcaggcg	gtgtcctgct	gggagctcag	cctaaccaag	300
gcctgggtccc	tgtgctcttg	accttcatct	caaggtcaag	gagagggcac	ttgacccaac	360
tctgccagcg	aggcaaagta	atgggtgattc	aagtagtgng	gttcaggagg	gaaggtangg	420
ggcanaccag	aatgagtgcc	cttaaaaaagt	cctggggcaat	gtctgctggg	gcccagcaa	480
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<210> 8408

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8408

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cctcattatg	tatatatgca	aatattccaa	agtctgaaaa	aatccaaaat	ctgtaacact	180
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cagagaaaca	ggaactgcc	aaccttggtta	cccagcagaa	cagacagaga	gctgacctgg	420
cttcatggca	aagcaacagg	agaacctgga	nanggtcaat	tcggggggcca	gcagaaccag	480
gctgggttgg	aaggcttgct	actggaagca	aagtggccca	cattctanaa	agagacatca	540
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<210> 8409

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8409

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tttgactca	gagtttaaaa	gacagacccc	tactctgcaa	actgaagact	gccactctgc	420
ttcaataact	ccagcctgnc	acattttact	tcaattggnn	aaagcactct	gntgagaatt	480
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<210> 8410

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8410

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ctccagcctg	gaaaacctgc	cctcccatcc	cccttagcgc	cttcttggcc	ttccggcctg	180
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<210> 8411

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8411

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catgagacat	caatcagtat	gtgtaagggt	tacattgggc	ttgaaaggca	ggacaacttg	180
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tttctgatta	gccttttact	gaatatacaa	tttacctgtg	agaggagagt	agaggaatag	300
tcagttatac	cttaatcttg	cttagtgaaa	catgaaacag	agaaagcaat	catttatgca	360
tttgtttcat	gtgaagaact	tgagttcttt	gtccataagg	aattcccttg	tgagcaaat	420
ttatctttgt	ggctggctta	tttaggaata	aatggggang	cagggtgnct	caatcaagtt	480
cccacttggc	ttcctttggc	ttaaagggtt	tgaantttt	cnttcatatt	aacctaggnt	540
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<210> 8412

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8412

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cccgggtctt	tagatcgta	tcttggagtc	cggttccatg	ttctcaccgc	tcctccatga	180
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actcaatccc	catcaccaca	gccagcaaag	cctncgtcag	gggccctgcc	tcttcacctg	360
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gtgtcancgg	gcacagtggg	caaccagccc	ggggccggcc	aagcggaaca	ccttaaccac	480
tgacttccgg	gcaaccctgg	ggtccaagtg	gatncgncc	aacggctttt	tcaagttcct	540
cttcaagcca						550

<210> 8413

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8413

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cctcttccct	acataatagc	aaataactaa	cgtatatgaa	gcattgggtac	actattttta	180
atgcaaaatt	tcttaaatct	tgattcctat	atagtaaaat	ctataaaaagc	aagaaaaatc	240
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aagccattaa	atTTTTTaaa	gtaaatactt	aaaggtaaatt	tttatataaa	tatgtcaaaa	360
tgtagatcta	tttatttagc	actttgntca	ctcagataaa	tttatattgc	atatctaattg	420
agatatgcc	tcatcttcca	aggattatac	ctctattaat	caaaccaaac	caaacaaccc	480
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ccttt						545

<210> 8414

<211> 516

<212> DNA

<213> Homo sapiens

<400> 8414

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attacaggct	cccgccacca	cacccggcta	atTTTTTTT	cgtatTTTT	gtagatacgg	180
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gagttttgta	ctggcctctg	taggcccttt	tcaggataca	aaataaaagt	cccttcagca	420
tccacatgcc	antgggttgc	cttccagtg	caaaactggg	gtccanantt	tgggcaatgc	480
atntttccaa	gaattaaacc	ncatggctac	acnnc			516

<210> 8415

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8415

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taaaatggca	catttttaaat	acatatatat	aaaattttta	caaatacaagt	gtgaaacaaa	180
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ctaacttttag	aaaatgaaaa	gcaaaaaaat	atatatataa	attcacctag	acttaagaaa	300
catcgaaatc	tggaatcag	caactaagta	agctctggaa	atagactgca	cattaaaaag	360
cacctttact	tatgtgctct	gaaatcatag	cagcaagctg	gtgtcagaat	aataaccttg	420
agattacnaa	gtgtacatat	gggccattaa	agctgttttt	ggaataaaca	tttncagaa	480
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<210> 8416

<211> 536

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 8416

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tttcataatc	ttaacctccg	acgatatgat	tatacttggt	taaaaagaac	attatatcca	180
gatataaact	taacaaatga	aatattacaa	aatatgaaca	tagatagttt	tgtttcccat	240
tataattccc	agcattttca	ccctgtcctg	ttcatacgag	tcaatttctt	tcttcaattc	300
ctgtcccatc	agccgtctgc	tgaaaaacac	tgctttgtct	tggttaaggc	tgacacaagt	360
cagtctcgca	ctggctcanc	ctcccctttc	agcgacacca	ttccctacc	agggtacaag	420
ctgtttcctg	ggctctaagt	ggagtctgat	ttggcattcg	gtcccatcct	agngctcttt	480
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<210> 8417

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8417

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tggcagtact	caagggggcca	gaagatgtac	ttcaaaaact	ttaagacaat	tagaatgtca	300
agtgccacag	ggaagagaaa	tgataaccag	aaatttgtat	ttctagctag	tactatttaa	360
cacaacttca	caatactaaa	acaaatacaa	ataagaaagg	gttaggtagt	tgggcttcat	420
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tattttcc						548

<210> 8418

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8418

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atttactnac	aaaatntaga	aaacaagaat	ttacctcttt	taaatggcat	gtctgnatta	180
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cataaataac	atgattaaag	ggtcaggtag	aatgtatatt	ttaatatggg	atttgtgtan	300
tgatttagag	cataaatatc	acacagtgaa	aaatttatca	cancctaaat	acagtnacac	360
aggggaanga	aagagcttat	gtccacattt	ccaaggtctt	tacaataacg	ttatagcgtc	420
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<210> 8419

<211> 549

<213> Homo sapiens

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actgaaactc	agaaaagaga	caattttctga	ggcccaccag	atcctgattc	cattttgaaa	180
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tgggcccaatt	cttaaggcac	cagctgtctt	gaggaggaag	atgaagactg	tgaatgaagg	300
acagcagact	tgcttctagg	aaaataatat	atgtaagttg	ggatgcctct	tgcagccaga	360
tgtttccgaa	taagtcgctc	agtaccatac	cagttaaaaac	ctttcgtggc	atgtccaata	420
ccgtggaaga	tgaacacttg	ctttcttctt	ttttgctgct	taaaatatct	tcttcaaggc	480
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ancccaaan						549

**<211> 524.**

<213> Homo sapiens

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aggcacgtgc	caccacgcct	ggctaatttt	tgnatttttt	gtanagacgg	ggtttcaccg	180
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aagtgtctggg	attacaggca	tgagccacca	cacctggcct	ggattagtaa	tttcggattt	300
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tggccccctt	gaaaagaaaa	aaaaattgnc	catnccattg	ncttctctaa	tttgaaaagt	480
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**<211> 549**

<213> Homo sapiens

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ctctacccag	caccatagtg	aggtgggctg	aggggtaacc	cccaagggac	aatcggaggg	180
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ttgaagtttt	gacccctttc	ctagggaaac	taaatgccaa	tgagcctang	aaactnaatc	480
ttcttttcaa	ggcctttcct	tttngaccaa	aanttcngac	ttaacttttc	ccagcttntt	540
ctaatacac						549

<210> 8422  
<211> 551  
<212> DNA  
<213> Homo sapiens

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cattaacttt ntgctttata caaccatcta gaaactataa aacagnacca cattgngcat 120  
ttaacctact tatcaagaag ggaacttcat aagtnataag aattctaccc atataggaag 180  
gaaaaaggag acagctaata gcatagtcac agatacaaca tgagtccaag caagcatcaa 240  
ttcttcgaca tcaccttttc catttaccag agtggagact gagaaagaga gtgagggaga 300  
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ctatagctca gggtttcata gaatagtatc atttgaccaa cacagtgtgg tgganggaga 420  
ggggtgaagg aaacacaaat nnaaggatag agtttggaacn agaaaaatcc aatttcccct 480  
attnccctct aaatactctt catttgggtcc aagcttttgg gctattcagn aaatggcaan 540  
aaattatntn t 551

<210> 8423  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 8423  
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acaatgtaaa aagaatttgc tctgcaaccc tgtggggggg ggaaataaaa gtaacccagc 180  
gtccatttaa tgcagccaag tgcaattcct tccccacct tagaaagcac caccagataa 240  
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ttagagaaaag catgagaaac agggagcatg tgggtgaag gccgggcaag aattgnaagg 480  
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atgct 545

<210> 8424  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 8424  
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tacaaagagg gaggtagact cgtagcctc ccaaccttag cttaaactgt gatgttgcca 120  
ggttcctggg gggtcagctg aatcctagac agtttccctt ctcttcataa agctgagaag 180  
aaaaaaaaat tatctccatc tagggccacg ggaattttgt gcatagacag tttgaattgg 240  
tctgaaaagt gtgactagct acctacctat tcacaatgcc tagaaaatgg gctaccagat 300  
atggtagtgg tcaaagcccc gactttcctg totgaggtac tgggtttgct ctaaggtaga 360  
ccttggcaag gccccaatg ggtcccgtcc agcaaaaagt atgctcgtgt ccctcggtg 420  
tcaagtgaac ctgggtttgn gaatcaactt ttggatangg atcattctct tggattaccc 480

ctaggnttnt gncctacan gggntaccta cctgg 515

<210> 8425

<211> 474

<212> DNA

<213> Homo sapiens

<400> 8425

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cctgcacccc	aacacggctg	gattccagga	cgccagtgc	aaaaccagt	catggacaag	180
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cccctcacct	ggcttgaaac	atittcccca	ttttccaggg	aaacaaactc	tacaaaaagg	300
tgccgcctgc	aggaccccg	gcccagcccc	ttctggagg	ggtgctgtgt	ggactcctct	360
ggggcgacc	cggggccagc	acagggcccc	tttccaggcc	gccttcaaat	gcagcttgn	420
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<210> 8426

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8426

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gcttctattg	caccaagtat	cgaagattaa	aaacacaaaa	aaagaaacat	ttggttttga	120
aaacactgca	aatagccaag	tacagtactt	tggtaaataa	aaaataaaat	ggttcagatg	180
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cacaattctc	accatcgagc	tccatagata	aggcaagact	tgctaagtct	atggatcacg	300
accccatgga	ggtcttaagt	atctccagac	tgaagctaga	acaagtatag	tgcaattaga	360
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cttctttcct	ctgagcttaa	tgctgggtgga	ggctttggna	aaagcactgg	ggaaggncca	540
agncncttn						550

<210> 8427

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8427

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atacttgggg	cttgctacat	tatcagttct	atatgaactt	ggaattattg	gaaataataa	120
aataaggggc	tgtggaggtt	gatattatta	atagtgttat	gcagaaaata	tgaatggcag	180
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ttagaatcta	aaacttacag	taatttaaaa	ccaacaaaa	tcacatccta	atctttctga	300
gccctttctt	ttcatgaaaa	attacatatt	ataaaacaga	agtttggggg	gaaaaaatct	360
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taacctggat gancngactt gctggcttta aaancccaac ttgggggatta ccaaaaaattn 540  
ccgttnt 547

<210> 8428  
<211> 561  
<212> DNA  
<213> Homo sapiens

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ggcctttggg ttctaagtct t 561

<210> 8429  
<211> 559  
<212> DNA  
<213> Homo sapiens

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ccttcgggtga caaaagggct aggcctcttg tggggagggg gtggcaaaag gtgaagtgga 180  
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aactagttca naacttgggg aaagaacngca ccncagtcta tcctttcggc anactgnntt 540  
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<210> 8430  
<211> 388  
<212> DNA  
<213> Homo sapiens

<400> 8430  
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008220.69462960

caggaaacac attgncacta gctattatca tttgctngnc tgtatgaaag agactnggng 360  
cacctgggng naaacagcag gcanctgg 388

<210> 8431  
<211> 485  
<212> DNA  
<213> Homo sapiens

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aaacaactta agaaaagtaa caccaagctt taaagccatt ttgcttttgc tgnccattgt 360  
ccttatccaa tacagatcaa catatcatcc agcacagcca agcaccnct gangccaanc 420  
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agagt 485

<210> 8432  
<211> 505  
<212> DNA  
<213> Homo sapiens

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gccactcaca tcctgccact gaaggagggtg gctaattgcac aatttacaaa tgaaactgca 360  
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<210> 8433  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 8433  
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09629459.072800



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ttttgggg						548

<210> 8434  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<400> 8434						
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 <212> DNA  
 <213> Homo sapiens

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<210> 8436  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<400> 8436						
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gctcacccat	ttgttgaaaa	aggagacaaa	gccatatccc	ttagactttc	ctgttgccat	180
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<210> 8437  
<211> 523  
<212> DNA  
<213> Homo sapiens

<400> 8437  
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<213> Homo sapiens

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gccctctgtc cttgctgaac tggttgagca nggcctataa gncctaatag gncaggaca 540  
tgngggcatt nttntggcc 559

<210> 8439  
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<212> DNA  
<213> Homo sapiens

<400> 8439  
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catagtactc tgtgcgaaac agagggacta caaactgggt cccctttgaa cagagtgggt 420  
ttaaataata gattctccag tgcccaactg natttcaagt ataattctgg gatttgnacc 480  
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c

541

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<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 8440  
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<212> DNA  
<213> Homo sapiens

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gaaggcccat gtttgacct ccactttatt caagtgcctt aggactaggg ctggggcctt 180  
cctagaagcc ccctntcana acctgttctc acccaccac cactcccgtt gtcaggccca 240  
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ccagcttcaa ggacatatca tctgacacag ggagaagctg acatctgtca tattcttctg 360  
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<211> 550  
<212> DNA  
<213> Homo sapiens

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gcaaagtgtc tcccgaatct ttccagatgg acatttcgtt tgagtctcta gcgccctctg 180  
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 <212> DNA  
 <213> Homo sapiens

<400> 8443	
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gtatcattga	ctaggggata
ggttagactt	acatattttac
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ccntttnaatc	tggaataatg
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<210> 8444  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

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<210> 8445  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

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<400> 8451  
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ccattttcaa caaaattagt tactgtaagc acacactaca agactgaaaa tgcttttctt 240  
agaaaagtgt aatgtaaagg attctgacac gttagcatct acaacaaaac gcattgaaat 300  
tcccacgtcg tattgccagg aaacaaagaa aacatgccag ccccatccaa aaaaagtnca 360  
cagaactaca attaaaacag taaaacagtc tgtcaataaa gtctggggat taacagggcc 420  
cgatnttaaa tagcttggat ggacncatcc ccatttccaa aggnntccaa nggggaaaaan 480  
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<210> 8452

<211> 417

<212> DNA

<213> Homo sapiens

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tctgtagagt ataggggtgtt aagagggtttc agaaaccacc ccagcccaga cctggaggag 180  
aagctgtgat gacttctctt cattagctga acctcacttt attcttgttg ctggccctcc 240  
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tagccagcaa cccagtcctt gtgtggcatg ggcttcctgc tgctggatcc cgggctccac 360  
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<210> 8453

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8453  
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cccacgaagg cgcacaagag cttaatccgg tgtcaacagg gttcattgca ggagtagaat 180  
aatccggtac aaggaacgag aacagattga aaccagaaac aaagccatgc ctgacagtca 240  
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aaagggaatg ctgacattaa cttttccaaa atgggaanttt aaaatgttnag tagtactctt 480  
ggggaagaat ttgcctggaa ccgtaacctt gatttcccag nggtttaatt aacngggggtt 540  
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<210> 8454

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8454

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 <212> DNA  
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ttaagtttac	ttttttctag	tgctgcgggt	ttggctcgtc	ttggtagtct	catcttcatt	180
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gtagactttg	atgcttgggt	tgcttttaca	cccctgagtg	gagtcataata	tacttcttta	360
ttcttttcat	cttcattttg	gaaagtaagt	tgtagtcaag	gtggcatcct	gtgctgcttc	420
agcttgggtca	ccaaattcct	tattnccttt	tctaactgaa	tcttgaattt	cttccaaaagc	480
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atct						544

<210> 8456  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 8456						
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actgttaaag	tttttttttc	ccaatgcatt	aaattgtatt	ttggggagat	ttttctcact	360
tcggcatgat	ctcagatcat	agatgagcaa	actaacatta	aaatattttac	agttaacttg	420
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<210> 8457  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

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<400> 8457

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tggatgcaca	tgctcaataa	ctttttctct	cagcctaaat	gccttattga	cagggaanaag	180
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atcagggaag	gattcaaatg	ttttaaagtt	ctgcaaaaagc	aatatgaaaa	accaaagtcc	300
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<210> 8458

<211> 511

<212> DNA

<213> Homo sapiens

<400> 8458

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ccttaaattt	ttagtttctt	tgtgggtctca	agtctttttt	tcagcagctc	ccccatttcc	180
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<210> 8459

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8459

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gaagtaagtt	cacaaactgt	tattttctaa	agctaaagct	aacattaggc	cttgctatgg	120
tagaactctt	cactgggttg	tttcttaaaa	aaaattcacg	caactgacag	gaggaattgt	180
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<210> 8460

<211> 551

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<212> DNA

<213> Homo sapiens

<400> 8460

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<210> 8461

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8461

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<210> 8462

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8462

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<211> 533  
<212> DNA  
<213> Homo sapiens

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<210> 8464  
<211> 396  
<212> DNA  
<213> Homo sapiens

<400> 8464  
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<210> 8465  
<211> 548  
<212> DNA  
<213> Homo sapiens

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<210> 8466  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 8466  
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gacacaggaa acctgccag aaactagact ggcagagatg tcaggttaac aaactgctaa 360  
aagttacatc ttcaaaaagg cacttatcat tgnataaaa gtgcttaaaa tctaaacttg 420  
aaccttgngc ctggnntata aattaccaga aactgcaagn acccagacta gttttaatat 480  
caagttccat ccaaaatggc cagaatttat tgcatacctt catgtgacng gaataacttg 540  
g 541

<210> 8467  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 8467  
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tgtgataacc tcacttacac attgttccat acttacctgg tttgtttgc atctttctgc 120  
aaacattaaa aggagatgga tttgattctg atttttttgc tatggttcat gtaaacagtt 180  
gagactgcta cataaagtag gttgttgtca aaggtgaagt ggccacagaa tcccaagaat 240  
agaataattc aatttggttt aatgaaattg gtggaggctt tagcagatag ataatccaag 300  
actaaatatt gtcttctagg catttttaaaa attaagaact ttgaggtttt ctatcatgtt 360  
taaacataac ttagaccttg gtggcattaa gtttaccaaa gaaaatatta aacctatgatt 420  
ttatcatcct ggcccatgtc agtatcacac tctttattat gagaatgaaa nccaantaat 480  
aagccaaatc catcaggaat tcaaatggnc tggcaaagaa ggtcccactg g 531

<210> 8468  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 8468  
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agtttctgat tctcctggga tcaaaggtaa aagcattgta tggaacact caaccttggc 120  
tcattaccct cctgaggagc taagtctgga ggcctcagag agaggagct gacattcaca 180  
acttattcca agatgggtaa cacagtgaac aaagaattag taaaacatag actcagtctg 240  
tagagggtt caaatataca tattctatat atataaacct gttatatagg atttcaactt 300  
attggtttcc ttgtgatttg taattaacgt acaaattata aagatgttgc aactgctga 360  
tttccccttc tttagcccc cttccttccc aacctataat accattccaa anggcangng 420  
gatcctaana atttttggtg gtgnaaatat tttggtttt 459

<210> 8469  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 8469  
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ggggacagca ggccggccagg tgctcanagg gcaccaaggt gccacaactc cctgcagcgt 120  
tgacaccgca cgagcggcac caccagcccc ctcccgctc ccgtcccacc ttcaccctna 180  
gccaanaggc ttgggtgact ctgagtaata cgtaacaaa aaacaaagct tntttgagga 240  
aacagcatga cttagtgcga aagattctnt gcagcaagaa atgaggccca cgcagggaag 300  
ctcccgcta cctgcccagg gctgggacgc agcccggtt catcagaggt catccacaga 360  
agctgccgat naattannag agccccggtt acggccagaa aatttttgct ttctctacct 420  
gatttaaggg ttttcaaaaa gtttctcttc cattgggaca caaatggtnc tnttggnntc 480  
tggggccact tgttccgcct gacaggggta angtcncag gtccaacat tgccanaag 540  
tgtgg 545

<210> 8470  
<211> 517  
<212> DNA  
<213> Homo sapiens

<400> 8470  
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tttaatatg taaggggtac tgcagggtat ccatgctgcc agttattgct ggggcacaaa 120  
acgccccagt cagtgattcg gagggctggg aaaacgcata aactcataat ttcagagcaa 180  
gtagaactag tatttacagt tttctttctt gaaattggcc cgggacatct ccaacagtct 240  
acacatgtat tgccatggta cttgctctga tgctctgaat gcctcggaac tgtgttcaat 300  
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acaatatgt ctaaaactat gctgccaaat actggatctt cataatgaaa ccaaattacc 420  
aaacactggc ttgtagagct atncaaagat ttaaataaaa ataaaaaatg tcaacagnct 480  
taaatatca attctctaca gngcagttct attttt 517

<210> 8471  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8471  
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tttgcccttg cccgagacaa agagttgaga aacaagcaga tgaaaacctt agagatgctg 120  
cgtgaacaga caacagatca gagaacaaaa cgagaaaaca taaaggaaaa gcgaaaggct 180  
atcttagggg caagacttgc caaacttoga caaaaaaga tgaaaaaatc aaaagaaggt 240  
ggaacagaag aagaaaatag agatggagat gttattgggc ctttgccacc ggagccagag 300  
gctgtgccaa cccacgtcc tgctgccag agtagcaaag tagaagtcac tgtccaggag 360  
aggaaggaca ccaagcctgg agtgccacac atccgggagt gggaccgcg ggaagaagaat 420  
tttccttttg gatactggtc gaaaaagcag tcagatctcc gggcttaaaa gaaaatcctt 480  
gagttttgcc ccgccgtcag aatacnttgg ngggtcanaa gaanactggg ttttccaacc 540

agccaggctt ggnccaaacc tg

562

<210> 8472

<211> 513

<212> DNA

<213> Homo sapiens

<400> 8472

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gggggcttg	ctcacaggtg	gaaggacact	aaattggtcc	catctgattt	ottgaggcaa	120
gggttgaacc	tggcttgac	aaatcacacc	tgtccaaagc	aaccacgagt	tctactattt	180
tcagccctt	gctgctgggc	gacgacgacg	acctctctgc	ctcttctttc	caccactaca	240
tcgcctcctg	gggcagcttc	tccctactcc	accctgtata	cctttcccag	aatacagaac	300
ctcaggccaa	agagagatgc	cagccccatt	aatcacctct	actgtacccc	aatcatatta	360
cggaaagtca	gaccaggaa	aacaaggact	taaaaagcca	cgcttatagg	gcaaaattcc	420
gnttgctggc	ttcaagccct	tatttcccgc	ttaaatngaa	nggctctgga	ttatagcccg	480
cantaaattt	anngcctcct	aaatatnggt	tgt			513

<210> 8473

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8473

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ggcggcttcc	aacagataaa	cttttggaca	aaggtacaag	atatttttgg	gcattcattt	180
taaataccat	ctagttatcc	aattaggagg	tttctaaaaa	aataaatatg	acaaatatat	240
ggatttctga	agtataaaact	gacatacaaa	totatatatt	ttcttaatac	ttttcattaa	300
agcatcttta	aagcattctg	taacatgaag	ttgagagttc	aaattagatg	taatgaaaag	360
gcatgagggt	ttattagaac	tgtgtaattc	acatatcaaa	atttttaccn	taaaagttaa	420
ccaaccccaa	attggaaagc	naaatacggt	attttactct	tccagggtacc	aatttcagaa	480
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<210> 8474

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8474

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ctttcaaagg	aacagcttcc	actaattcca	aatttaaactt	tcacaagttt	acttgtttgg	120
ggaggacat	tcttatggtc	accacaaaaat	acttttatta	taaccttccc	caaactcttt	180
cttagcatta	actggaaaaa	aaaaaaaaaaa	aaaagcttag	gtcaaataatc	aactgcctga	240
aaaacccaat	taagttactt	ttccttaaaa	catgtgcagt	ataattgaat	caaaagagaa	300
aactgcaaat	acattgngct	ttggccagaa	gtagagttca	tttcatgatg	attcagtatc	360
ttcagatact	atttttgaca	cttgccataa	atcttagcaa	agtaaatcca	tttattaacg	420
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tttgcanang ngattattna aacctntttg gagctnaatt tagcttttaa 530

<210> 8475

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8475

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gactagagta	cagagagcat	tttagtttta	tcacaaaggt	ctagaactgt	ctctacagtc	180
acaggaagaa	acaggtatgg	caccgtggcc	agaagggggt	aggtattcac	agagagtggg	240
tatcaaggtg	tcaaactttg	tcttctgata	gttttccaga	gattcctgta	gagaagggag	300
cagggagagc	ctactatccg	aaaccattcc	ctgaaccctc	tgaattctga	agcatgtgga	360
tttctcagtc	ttgttctacc	catccccttt	cccagctttc	tgctcctttc	cactcacctt	420
tccttcccc	tggccatttt	cttccccatc	agagtctaaa	accaaagtcc	cctatggtaa	480
tgacggactg	acagagaccg	gaggaccact	gtaggaggga	accngaata	aacttct	537

<210> 8476

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8476

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ggtacataaa	catactggga	tttgggcata	aaaacacagt	atcaattaat	agcttttagca	180
gtctcaaaat	agacttcaac	gacattcata	tatatttcct	aatttaaatt	gtgttagaaa	240
cattgcatct	actttgagga	acaaattctg	taacagaaga	gggaagacag	gtaggcaaga	300
aggcaggaga	tttttagttg	tatactaagg	tttagttttg	gcacattgaa	agtatcatit	360
ttcctattag	atttctgaat	ttgtgaacaa	acattaacag	ttgctgttct	ttaatatgac	420
ctcattcata	ctatatattg	gggaaaatac	aactttagtt	ttttctgggt	acttatttnt	480
ttaattttcc	actattgntc	antggaagga	cttacccaat	antttttaga	agaaagaa	538

<210> 8477

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8477

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gataaagacc	cactttctgc	tccggagggc	tggagacagg	agggatggag	aggctgtgcc	180
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ctgtcagtcg	ttccacgacg	tcatttcctt	cttcaagtgt	gccacttga	ggctgctcaa	420
agacaactct	gncctcttca	aaaatatggc	ttttccgggn	actggaaata	atgggtttttg	480

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aangntttcc accagggccn aaaatggggg ggctctttgc tgctannggg cctttggg 538

<210> 8478

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8478

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catatgaatg	atctgtataa	tgtacattca	atatagaaag	ctttatatat	ttgatagtgt	120
atagaacatt	tcacaattac	actcatcttt	tacataacat	cttgacatcc	atttttaaat	180
ttttttgcac	aagctccttt	tcattcaatt	tggtaaagcc	agttatacat	actaatgtgt	240
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tattctttcc	tggggaaaag	tgacttagcc	caatttttgg	tgactgnagc	tcaaccctac	420
agtcatgcta	gttcaaaaaa	aaaatttcca	aaactaggaa	gaaaggtttg	gctttttgat	480
cacagtttgn	aacngattta	anggaccaat	ggngcttcat	ccccngaaa	aaaaattntg	540
gg						542

<210> 8479

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8479

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caggcattct	agatgtagaa	gcttaacatc	ctctttggta	gttatatttt	ctgacaaaaca	120
ttactacaa	atgtaccaag	aaaagagaag	gccagcctcg	acctcgctgt	ggcacatgag	180
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tatggaagag	aacaagaggc	ccaagagctc	tctgatctgc	tgtcaaccag	ctgcagccgg	360
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ggattaccag	cctgatccct	tggcttttaga	agccngaaat	ggctcaactt	tacaacagca	480
ngnctgnca	gggagggggc	catgaccctg	gaaagggttt	ttccccttgt	gggg	534

<210> 8480

<211> 487

<212> DNA

<213> Homo sapiens

<400> 8480

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aatgatgggt	ttcaaaatac	agtaagtctt	catttaacat	tgtaaataga	acaatgaaaa	120
ctccaacttt	tacgtgaaac	agtgtatagc	cagtcctcaa	ataactgcct	tttgttcaac	180
atccttttct	tgtaacaact	gatgagaaaa	agtatggttt	tgttatacat	cattttctct	240
gaagtacaag	ttttcaagaa	cctattgaca	aggtttaagt	tgggcttaca	gtttaccaat	300
cttagcctca	gattgggcta	gggcagggat	gacaaaccag	gctcttgcat	gggtctttaa	360
atggactggg	caataaatga	agactttggc	ctgtaaattc	ctaaatagct	tcttttgctt	420



tgncctttan gaatgcacag nctcattgnt acangccatc ttatggtcag tagaactcna 480  
cccgaat 487

<210> 8481  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 8481  
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gttaggcgtc aaattagtag tgacaatctt ttttttaatc ttgaaagtcc ctagttttaa 180  
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caggccaaaa agactctgaa gggaaccagg agggtttggc ccttgctgtg gaaagatgct 300  
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cgctaagaca tgggaccaga gaacacgtna acgtcaaggc cggtncanga aaaccattcc 420  
caagaccacn gaagctaccc gaggtcgaca ctgncatgaa aagtgttgct gaaccgcagt 480  
tnccagggct ttactggccg aacatnccta aggcacgggtt gggcttgtn 530

<210> 8482  
<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 8482  
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gctatgtagg gacaaaaaat ttttgatgg ctctgtaaag aaacatggta ggttttcaga 120  
aatgagttgt gcaggaatgt ggtaaatgaa aagcagaaag ggtaaggga agagaaagga 180  
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aaccctttcc ccaagtcaga tcccaacaaa attcatcagt aactgaagtg attgtgctaa 300  
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acaactctgg gagtcttggt tctgtgccaa ccacgtatcc gtgggctacc tggagatgaa 420  
gttctaacaa cccagcacag aacccaaagc tgntnttcna cacctttggt tantngggga 480  
aanctttatn ggggcca 497

<210> 8483  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 8483  
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totgttaaat aaagcaccat ttatatactg ccaggccaca gctaaagagg attctttaca 180  
gaatcaaatt tcttgtgggt gttccgtata caagtaaaact taattttgat aataagaacc 240  
acagcgatcg gaggcaatct gcctctataa ggtacaaaac tggcacagag gacaccatat 300  
catacacagt aaaaatgctg taagttttaa ttacattgta cagggttagg caaccctgtt 360  
cttcccagac agccatatta aatgaaagcc actaaagtga actcttaatt acataaaaca 420

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<210> 8484  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 8484  
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ttttattaca gatcattcta tagggactac agacatgaac tagaggaaat gtgcacagtc 180  
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cagcaaagtg agcaagctat tcacacaaaag ccaggaggga ttatgactaa actctccagt 420  
ttataagcac aagtnacat ntcacctctn agaacangng ctcaatggca ttacttaaag 480  
gtnttgcntg gac 493

<210> 8485  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8485  
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gaagacagag ttgccactgt atgcacaggg gatgagcagc tgccgggtact ccaggggcag 180  
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ccaacctgtt ggggatcttt gccngggcct ggggcccgtg gtcccgggcc taaggggatn 480  
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ttaanaaact n 551

<210> 8486  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 8486  
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ccatttattg tctttcctcc cagccacggc gcctttcctg tgctcgtca tgagcttctg 360

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ggtattgggt	gnctactggg	gtcacttctg	gncctttaca	ccagcctntg	gggaaaagtt	540
cttaccan						549

<210> 8487

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8487

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ttcttaagat	acacaataat	attttgaaag	atttgaaatg	tttcccaagg	actttcctat	180
cacaaatccc	ccccagtaaa	aattatagga	actgtggaat	atggctgcta	atattctgag	240
atgaatttag	aaagtataag	tattgagaga	tggactttat	tatagcacct	gtagaagaac	300
caaattcagg	catttatccc	atattttctg	aaatatttac	aaagctctta	taacattttc	360
aaataacatt	taatttacta	agttctattt	catggcaaatt	aagaatcaga	aaatttgagg	420
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aaaaggatcc	ggtctcaatt	ggnggngctc	ggtctctttg	gcaattttaga	gccctgggta	540
agcacatgca						550

<210> 8488

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8488

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gttctcctta	ttccttttcag	acaccagtg	ggcgtgaca	ttggcagggtg	gaggggagct	180
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<210> 8489

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8489

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gtgatcagat	gacccagcct	gtgatctctt	aagaacctac	atctacacat	ggcagcctgt	180
tagtggcttc	tctggaacta	gtgcatagct	gctcaatgtt	agagccagaa	ctctggttcc	240

cagggagggc	gagtatccca	aagagatttg	aggttaaatg	gatggcagtc	caggtgggtcc	300
cagacatgct	ctcactgctg	aatttcctgca	cttactccta	gaatatacca	gtgctgtttg	360
ctcccgccat	cctgagggtc	ttaaaaagng	ctttaaaaag	ggaggatctc	gaagcancaa	420
gctttttcaa	angcactgtt	gggaaagcct	atagtgggtc	catggagggt	nttccaaggg	480
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<210> 8490

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8490

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catactgtac	ccaactttct	atagaaagat	aaaacatttt	ccaaccttgc	ttttgagtat	180
ttcctaaaaa	atgcttttaa	gtttccttac	aataaatggc	aagtaaaaca	aagtaaggct	240
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gtatacccct	attattgagg	ccctgatgca	cccctgcact	gaggaacctg	agaagggtaa	420
gtactaaaca	ggctgcatag	ccacgtngga	ctgttacaag	cacaagggtg	gactgggaag	480
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<210> 8491

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8491

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gattagaatt	acacaaaatt	tgattaatat	tatagctgca	aaattaacat	acacaatttt	180
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acacagtata	ttgaactctg	taacaaaatt	atttttgaga	aaatacagaa	gtgagaaata	300
gtgatttcct	caatttggtt	atagtctatc	acaaagtagg	ccaaagtcca	gtattaaata	360
gataccctaa	taaaagtttt	tacaagtttt	nctaaggaaa	tccattcata	agactgntta	420
ccttctgggt	gacagcagtg	acangaaccg	tgggggatcc	ccctnatgga	cgagtncccta	480
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<210> 8492

<211> 454

<212> DNA

<213> Homo sapiens

<400> 8492

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tagggttcag	gaaagggaga	gaacaaaaaa	aaaagtctcc	aaacattaaa	acagaaaaat	180
gctttttttt	tttttttttt	ganactgagt	cttgctctgt	ctcccaggct	ggagtgcagt	240

ggcncaatct	cagctcactg	nagcctccgc	ctcctgggtt	caagcgattn	tcctgcctna	300
gcctcctgag	tagctgagat	tcaggcacac	gccaccatgc	tcagctaact	tttggatttt	360
tagtacagac	agggtttcac	catgttggcc	aggctggngt	tgaactcctg	acctngngat	420
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<210> 8493

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8493

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aagctgctgn	gattctatgg	cagccttata	ttcttatgac	acgtcattta	ctaagaattn	480
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<210> 8494

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8494

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ccaccagtag	taggtagcta	cttatttttg	ctgagtgtcc	tctgcttttc	tgcatgctcc	180
acaatctttt	cttccacata	aagccccttc	cgctttcgta	ctgcgttcat	gtacttccgg	240
gcttggttct	cagagtcagc	cttctcccca	aagtgcaggt	attcctcctc	agtagttggc	300
accagaagg	ggtcactggg	aatgatctcc	caatggctga	atactagtgt	tgggctggcc	360
aggccacttg	ncctcttctg	atttcatcag	caaaacaaa	gctttcagca	acaggcagca	420
cagcttgatg	atgaacatgt	ctggcccttc	tttcatttct	tcttgaagac	ccgacctnt	480
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<210> 8495

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8495

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atgcttattg	tgtccaggcc	ctgttctcag	ctcttagaat	acatccatga	acaaaaccaga	180
taaaaacttc	tgcccttgog	cagcttatac	tctagatcgt	aagggatggg	attagcaata	240

aatttacata	aattcaacca	tacctactgg	aaaaagacac	atgcatggaa	attattaatg	300
ctataagaat	ctcttgatat	gcagtttgta	tttttgnact	taatataagc	ataatatatt	360
catacctaca	tatcactccc	agggatttaa	actttaagac	tacnaagaga	aattttattgg	420
taatctaagg	agatttttcaa	ggccatctga	gcatgctcaa	ttttggccct	angcacggct	480
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<210> 8496  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

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atcaaaaagt	cctaaaatgc	atgtgagaat	ataaatattc	tccactttgt	ggaacttcaa	180
gataatgaaa	aattgcttaa	tacactttgc	cacaaaaact	cattacactg	caaatacaga	240
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accattttcat	ggctaattct	ttggtaaagt	gctattttca	cactgaaaaa	aagaaattag	360
aaaagattaa	aaatttttaa	ttctgaacca	tcattctgaa	agtctgaagc	gttttcttta	420
gtattcacta	tggatcatcac	attcatgngg	tcccaccatg	agacttaaca	ctttctcaaa	480
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gtn						543

<210> 8497  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<400> 8497						
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cccattactg	atcagcctgg	gagttttggc	ctgctccatt	tccaacctgg	gctgggttca	120
cccgctcctga	tgcaagtttg	tggtttcctg	cttcagggac	atcaccatat	tgatgccaaa	180
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tgcttcagcc	tcctaagtag	ctggggctgt	acgcatgtgc	caccaaacct	agcaattatt	300
atttttaatc	ttagaaaata	aattgngtat	agaaaggaat	agtttagcaca	tttatgtcta	360
aagaggaata	aaaaagggca	actgggggtt	acacaaaatg	cattgnagtg	actgattttg	420
aacancctat	caggtncatt	caaccaaattg	gcncaggaga	tgcatttagt	actnaaccca	480
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<210> 8498  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

<400> 8498						
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acagaatata	cacagaatta	tatatagata	tttacaggcc	ctcgaaagcc	aaaaggaaaa	120
atggcccctc	tggttaaggg	aagcttctct	tcctaccttg	tccctgtcca	aatcaaaagt	180

09629469-072300

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aataacatca	gaaacacccc	acccccaccc	cagagcacaa	ccaagatacc	gactttctgg	300
ccctggccct	aatcctaaac	tctcctcctt	tgcaagctga	caaagcaagg	atttgtatgt	360
ctcgagaggc	atcagcatga	cccctgaaat	tcagatgcac	ggcggagggg	ttcccatccc	420
attccagctt	tccagccttg	ggctgattgn	gaaatgagcc	aaaaccaacc	attttccaaa	480
aaagaagggtg	ggggaaagta	aaggaagaat	ggatcttaag	gcnnaaataa	tgg	533

<210> 8499

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8499

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gtccattgat	ttgttcattc	attaattcaa	caacatttac	taagtttctc	catgtacact	180
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tgaagcatgt	ctctgtctaa	gtttatataa	tcagtacttc	ataattcaga	aactttgcct	480
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<210> 8500

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8500

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acaagtctcc	tcattcccagc	aattcttcac	tctctagctc	atctgatacc	ttctctggcc	420
tggccctggt	tccttttggt	tacagaatgg	tatcagggcc	aaaaccctga	gtgcaccggt	480
caatgngttc	aggncctnaa	aacttggnaa	catttgggca	caagccctta	naaaaagncc	540
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<210> 8501

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8501

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acctcatgca	ggcaaaggac	atttaaaagc	acatccaact	aaatcaaaaa	agggaggatt	180
agaaatcaca	ctagttcatc	cttcattatc	agggctggct	tcaaacctga	atgtttctga	240
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tagtgtatgc	tagctaggac	tacaggctgc	caactcaaca	ttgcttgaga	acattaagtc	420
ctttgaagca	tgttccctgg	agtctattaa	acattctttc	tctgggggtca	aatgtcaagc	480
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aaa						543

<210> 8502

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8502

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aagcagatta	ggcagatttc	ctaaatactc	agttaaggct	atgggtgtgct	tggttttgac	180
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ccatgcaatt	tcagttgtta	cagctttaac	ttataagatc	aaaggaatta	aaaagttgtc	300
agaatagatt	ttcaaataat	gacaaaaact	gacataaagt	ctacacagaa	ctgacataaa	360
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tcccttctaa	gtaaatagtn	catagaaaag	tatgtaaagg	cctttttcat	gaaggttcca	480
aaggggaaaa	ntttaaacca	tgggtcaaga	acnctggtn	ctaaatggtn	gaataagggg	540
ng						542

<210> 8503

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8503

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gtggcagaag	gcaaataata	atgtattcaa	agttttacct	ttaacaatta	cacttgtggt	180
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gattacttga	gcttaggagt	tcaagaccag	cctgggcaac	atagtgagaa	cccatttcga	480
attatttnaa	aaaaaaaaant	taaanccaaa	aggaantgaa	ggcttactac	ttgcntattg	540

<210> 8504

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8504



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aaacattttt	tggnctgttg	gaaaatgtaa	ttcctgagat	cattgttggg	ctttgtcaat	180
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<210> 8505

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8505

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gatattagaa	acagtagaaa	gacaagttac	acgtcaatgc	ccaatgacta	gagtcaacat	180
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<210> 8506

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8506

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ccaatgtact	ctgacttgtg	gttatatctt	aactatctca	actgtacttt	tctgggtatgg	180
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aaaaggcaca	ttttaattac	tagtgtttat	atctaaagat	agtagtttga	gttttgaatt	420
tccgtcaatt	ttccattatc	tcaaaattga	gctaattggag	ggttggaaga	ggtaggagaa	480
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<210> 8507

<211> 174

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 8507

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ccgtgaagtt	gtggacaaaa	tgtttcagtt	tctgttcacc	tctgtgcgtg	tgtgtgtatg	120
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<210> 8508

<211> 312

<212> DNA

<213> Homo sapiens

<400> 8508

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acagtaactt	tggttaaaat	aaaaaaagtc	ttctatgtag	gcagagcttt	gtcttttcaa	180
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<210> 8509

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8509

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<210> 8510

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8510

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gcgggccctt	cttgacacca	ggcgtntggc	atccttaagn	nccaaacaag	ccccgtttac	540
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<210> 8511  
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 <212> DNA  
 <213> Homo sapiens

<400> 8511						
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cttatcaatc	tgaaatactt	cttattttaat	ctatgtaata	taaaaatcat	agtaattcct	180
tttattgaat	ataacaagaa	aatatacagt	acacatacag	ttcaaagaat	tatcaaaaaa	240
cgaacacacc	tgtgtaatct	ggttaactac	ttcaagaatc	agaacattat	cagctcccca	300
gaaacctccc	tcatattcac	tcctagtcac	tacctccttc	ctcaaaagca	gccactatcc	360
tgacttctaa	aaccagagac	tgggtcatgc	ctagttttca	gtttcatatt	aatgggaatca	420
taatatgtgt	tgatggcctt	cttttgtcaa	cattataaga	ttcacttaca	atggtataca	480
tagctgtaat	ccggtactgn	tataaggcag	gctacatcta	caacntaagg	cttttaacaa	540
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<210> 8512  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 8512						
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gcaaagggtg	tttaggttat	cacattccca	cactccta	acccacaaaa	caagaatttc	180
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aaactaacia	aaggattttg	gttgtccttg	attattctgt	cctgtgatga	ataaaatcta	300
cactaaagga	caggtaagga	aaacttatag	cagaaaaaag	actagatgta	ccaaacacag	360
cagtacaaac	cactccttgg	cagacatgtg	cttctaaaag	aatggggcag	taatcaggta	420
gctgaactac	taggctnctg	ncactnccag	cccattccca	aataaatagt	gtggaaatgt	480
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<210> 8513  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 8513						
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aaataaatgc	aatgaaataa	aattgacttt	tcaacacttg	gacagcatga	agttcaacag	180

acaaatccat	taaaaaggga	aataaaagct	caatctcaag	gtgaaatfff	tgtccatgac	240
actctcgaat	tctagatctg	aaaaagtttg	ggataaatgg	cagaaaacaa	cgcgatcatca	300
cgagatctct	aatttaaatcc	aaagctattc	cggaaggcag	cagttttccc	tattttcttca	360
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cctgagtctc	cggtcaaaca	cacctcgtag	tggtagctct	gggatagggt	nccngtgccc	480
gntcacgtcc	ccagatgccc	tggaaanggg	cccttgggcc	nagcancgac	ccgaaccggg	540
gccgcctggt	cctctggana	aaccga				566

<210> 8514

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8514

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taactatgaa	tagcaaagtt	ttgtgacttg	tgactcactt	aaatcaccca	tctgaaattc	180
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agtctaaagt	acactggact	ctagagagtg	gattacatac	caacgaccaa	gattcaagtg	300
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tgtgctcata	attaatatcc	angttccctc	ttnccgnttt	catagatncc	caaagttgag	480
aaaatgcagc	aattcaattg	ggaaaaaaac	attcttctnc	caacttctgg	tttcatatga	540
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<210> 8515

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8515

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ggcggggaaa	atgaaagaag	agacagacac	aagtttgctg	tcttaatgtt	ttactaatcc	420
tgtcagttaa	aaatggngac	gtcatgagaa	gtaatagttt	aatatgagga	atgggagttt	480
gccttgcagc	ttgagacatg	catttcagga	tttttcctat	tggactgggc	tcctggagcn	540
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<210> 8516

<211> 580

<212> DNA

<213> Homo sapiens

<400> 8516

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cagataggga	ctaactggag	gggtggaagg	gaacaagggtg	aaaggatatg	gtcctggtga	180
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gtgcaggaag	ggagatgggg	gacatttcct	attccagtgc	atgtcccctt	aaataaactg	300
ggtacaggag	cattatggaa	ggagaaccaa	aggacagaag	acaaagcgag	cacccccacc	360
ccaggccaac	gccatcctct	gtacacaatt	acaacacagg	tccagaatga	gaaccctgcc	420
aggaagtggg	ggagacaggg	agggctgaag	acagggaaaa	ggaaccagct	tcacctnatg	480
gtaaagggga	gctntggagt	gtaagaatct	tgaaacttgc	tgacttccat	taaccaggag	540
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<210> 8517

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8517

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caaagtatgg	tccttagaat	agcgtcatca	taattgtttg	gaatgttatt	agaaaaataa	180
aatgtttttc	ttctgataat	tgaaaatgtt	cctcttcaaa	gcattttacc	aaagaagaca	240
gtcaataaac	caataaacat	atagaaaagt	gttcaagtta	attacttgtc	agggaaatgc	300
aaattatagc	cacaaagagt	gtctctgcca	tccaccagaa	tggtctaaaat	gaaaacacaa	360
aacagacatg	tcaagcatcg	ataatgatat	gcagcaatgg	gagttcatgc	gctaggaatg	420
ggcaaactgg	taaaactaga	aaactaattg	gcaatagcta	ctaaagntgg	ccaaagggga	480
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<210> 8518

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8518

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aaagttaagc	ctgtttcttt	attataagac	ttttcagata	ctttcccagt	gcatagtgtg	180
aatctccaca	aagcaagtga	aacatgaata	gctccctaaa	cttacttgac	cacagaatgc	240
ttcattctat	ctccatggaa	accacttggt	aaagtctcct	actccaactt	tcttctccaa	300
caaaactcac	ctgtttgtga	tcattctgaac	tcattttgtg	ctcttgccct	tatatataaag	360
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acaaattggg	aaaattttcc	attattttag	ttcagaagcc	ctaccatagg	tattctaaca	480
gtggattgtg	ggaaccaggt	atgagtgtt	gagacatggt	tccaaaatat	aggagctntt	540
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<210> 8519

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8519

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tatgttggag	aaggttaagt	acagccacat	gaatgagggg	aaacgtgcaa	gaggaacagt	120
ggtgagaagg	gggatgggtc	cccactttcc	acaaactata	aacagcaaca	tgaacacaga	180
gaatcacaaa	taagagggtc	tttcctcatg	tctcctctca	ccccattctt	ccataatgag	240
tcccagttgg	tccctagagg	tgccagggca	tctggaagtt	ctgggctggg	agtgggggtg	300
agtgagtggc	ctcaaagttg	tgcagatgct	tccgagccag	aaacaaagcc	agctgccgcc	360
gtccatctgc	actcatgtct	tccccacgct	tcaaggggaa	agtcngggcc	cngttctgcc	420
tggtaggaac	cggaggacag	acnggacacc	agtcctnttt	caccttccat	cggctattaa	480
attggggctt	tcttcancct	gtgaaggang	gcttcaacca	ctggcttanc	actcgaagac	540
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<210> 8520

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8520

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aaacaaaaca	aaaaaacaaa	acaaggcatt	tactcttggc	cctttcagta	caggcggaagt	180
gttctattgc	atcacaaagt	ctagtgatgc	agtaacagat	ccaagggcat	aatattaaat	240
atgttttttt	ccaactgcga	tttagttgaa	aaataacata	atacaaacat	atattaatgg	300
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acttagtaaa	accgtattaa	agtcagtgtt	tttattctta	gattaacaat	gacagagtga	420
agatatcttt	gattcaattt	tataagggtg	ggtgggggaa	ttgagaggag	cnagatttgg	480
ggaaaactgg	cantgggtgc	tgagttaant	tngggaatgt	gggtcaaata	agcnatntgg	540
ttaggana						548

<210> 8521

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8521

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ctttgtttct	cataagtata	tacaactata	atttgatata	taataaaaaa	aatctaaaaa	120
ggtagtctcc	taacaatcat	atgaagacta	tcctaaaatg	tccttttagta	actgtcatgg	180
actgaaaagt	atcccacgaa	gagacaatgt	ctactcagat	catgtgaata	caaacttact	240
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agatttgtcc	agaagccaaa	gaactccagg	aattgcccac	ggccccagat	tttnggaacc	480
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tganttaac						549

<210> 8522  
<211> 414  
<212> DNA  
<213> Homo sapiens

<400> 8522  
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gctctactgt gagacatcac aggttgtcat tgctagaggc aagaatctct tacaaagatg 120  
aaagggcaga acccagtgtc ttttttaatg gttgttattc catgcagaaa cactgactga 180  
tccagaactg gtaactaagg cggatgatcaa acaggaatgc tttcttctc agtttaggac 240  
gaagaccgcg catgacaatg gcgggaacgc tggagtaaaa cctcacggcg gccagcatgt 300  
agtttttcgc cagatttgtg gccccacccc caagtaccca cgcggagagg cctccagtca 360  
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<210> 8523  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 8523  
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ttttcaatag aaagattttc taaggacatg atttggagcc gtccacattt atcagatgcc 180  
ttttcattaa ttttttccat ttttgcaatt cttgatccaa actgcatggc ccgtttgggc 240  
agaagagcag aggctgtaag accaagttcc acagctgcaa ggcgtaaaaag taatttttca 300  
ccaattcctc ggggttaaagt caagtttgct ttttcccaaa tcggcagaga atttagaaaag 360  
gagacaacat tttcatccag gaaaggaaat cttgcttctt ttccatgac accaataaact 420  
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ctcattgnnc catttcngng ggactacctt gg 572

<210> 8524  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 8524  
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gataaattca ttcattctct ttgtaaccct ttctgtttgc tgcttttctt cttccatctg 180  
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gattcgatgc cgtaattctt catcatcagt gtcagatgac tcagatcctc tgtcactcct 300  
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cagtgcactg gactgtgcca gctgttttgc aggagctttg tatcacatca acaacaggaa 420  
caacatgtta acacaaatag ccncgattca tagtcatgag tctattggna ttggtaaaac 480  
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<210> 8525  
<211> 596  
<212> DNA  
<213> Homo sapiens

<400> 8525  
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tatcccctct cctcccacca caatgtttct atgatgagtt acaaacagaa aggaaatcac 120  
attttcatac taaaaacaaa atgatcagag ccttgatttc tccactagaa actacacgta 180  
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ccnaagtccc tgtccttcaa gaaatttggg agcctggggc cgatcctggt gggttcantg 540  
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<210> 8526  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 8526  
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aagatatgtt atctctgttc atagcagaac aggtttcaaa atatattttc ttttaaattgt 120  
attcagtcag tacacaatcc ttataaaaag ttgtatatat ttttttctgt caataacctc 180  
attacattta taaatacaag atttacacag caccatca aaaaaaaaaat taaaacctt 240  
tacaaatatc tacatatatt tcatacctat aaaactttca aaggggtgct ctgttaaagg 300  
tgggccctag ttaatgggtcc atttactggt gcagcaaat catataaatc tgtaaagttt 360  
ctttgccata aaacatcttc aaaaaatagc angacactta tcgnggaacc tcagcttcat 420  
aaancctaatt ttagnaangg acttaattggg cgtantccat gcgatcaaaa aggttaacng 480  
gatggaataa gatgaattgg aaaccaatgc ctctcagag canttaggcc gaatgtgatg 540  
gtgagaaaac tttagaagcn ggactggaaa catggn 576

<210> 8527  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 8527  
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tctgggggag gagttgttgg cagtgggtgat ggaattggga agggctctgtg agaaaatctg 120  
aggagcttcc tgcctcccc anatctccct cacaagactg tctctctcag gggtgcttgt 180  
gagaatcatt taggaactgc tgcagngtt tgatgttttc tgaaccctc cccanaaagc 240  
ccaggagctt gtaattgaaa caagaagtna agggaaagac ccagaatcat catttcccca 300  
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accattcctt cctaggaagt tctcaaaggt cagcaccaag aacctgtccc tcctctttca 420  
tctcctcctc cttctggtct nctcctgggg cttggaaaac cantgctttg aaanaggaaa 480



ggnaaaagga ggacttaaaa tanctgatcc naccgttctg ctttcggggg tgacaangga 540  
ttgcccaccc cttaaagggt tgcccgaagg g 571

<210> 8528  
<211> 508  
<212> DNA  
<213> Homo sapiens

<400> 8528  
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atacaataga acaactatctt gcatagcttt tacaatgcat gaggtatctt aagtaatcta 180  
gacataattg agagtataca agaggatgtg ggtaagttac atacaaatat gtcattttat 240  
aaaagggact ggacatggct cacggagtg c ggaaccaat acccagcagg tatcaaggga 300  
tgactgtctg gaaagaaact gaaattactt aagggtttac caagtgccta cattcacagg 360  
gctatctcca atgggttcgt acaagtatct gaaatgaaat aaaattaata aangctttcc 420  
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ccaatntttt nccaattctt catcctac 508

<210> 8529  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 8529  
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agatcacaa ctcattcctg aggtggaatg aaagatctaa gccaggcctc catcctaggc 180  
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caggagatag cctgaactgc tcacaaataa gaaacaactt gaccagactg aggactggtt 300  
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accttctttt cagtaacgct ttggtccttt tttcaacagc aagaaacctg aaatccangg 480  
aagtcattta aaaaaccctt ttngctggac ctggaagcat ttccaagnca actgggggtan 540  
aaatnaggcc tccacnttag ggggn 565

<210> 8530  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 8530  
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gaacatatga gtatattctt gtttcagaga agaaaattgc cttaaggaag ctgggttata 180  
ccgttttttg atgtgatttt cgtatttata ctgaatcatc cgaacagctc ttgggttagaa 240  
aataaatctc attgatagga cacacaacct ttcacagctt tcactttaca atgttccaat 300  
ttaaagtcag ccagtgtgct ccctgaattt gcatgagtca tcgtatttca tcccaggact 360

09629469.072300

agatgaaaca	cctataaatt	gtctgacaat	agttatacac	gtttaagaac	tnnattttctt	420
agtaatatat	cacagaatag	aaccattttc	ttaagatttt	atgtgactct	ttattgattt	480
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<210> 8531

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8531

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gaactggagc	caatcttntt	ntttaaacnc	tgatggattg	catacatgta	tgtcttccat	180
atnanccaca	tacacaacat	tcagatacac	ttccctttgt	gcagggggat	acnccancct	240
cctgccnggt	tntggaagct	caccttataa	tnaccagga	caaagctgtg	tgctgagtag	300
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tgggctaact	gaaggccaan	ctcccaaaga	agcttggact	cactgngtgg	gattactgnn	480
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<210> 8532

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8532

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aaactctcta	ctctgattta	actgttctct	cttcattttg	aaaaatcaga	gtacttttta	180
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cctgtcagga	aaagtgtgtg	ctaactgcaa	taagcatgat	gactgccatc	acggttttgt	420
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tccttattcc	tccaggaaac	tggaatagaaa	cgctcctcat	ctaattggaag	cagccctgnc	540
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<210> 8533

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8533

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gcttgaggcc	cctgagcccc	accctccttt	ccagagggag	ggaggagaca	gctgaggggg	180
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cagctcatgc	ggaggactgg	ggggggaagc	aaacaggtag	gaaacggaaa	tgagggttaac	300
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gaagatgaat	actgataaac	tcctcagctc	cccataaaaag	cccagtctgg	gctgggttgg	420
gctgattgga	ggaaaggctt	tgagacccaa	ctgcatgtta	cctctgaaga	attaatattc	480
tangaaaaag	ggaaaaccat	gaggcaagct	tctgaagtca	gttaacgcan	tnacaaggcc	540
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<210> 8534

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8534

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ttaagtaaac	acctccatct	tatgtaaaaca	ggtttaaaac	aaaaaaaaata	ttattttctg	180
atttggttgt	gtaatcgttg	gcctcagagg	aaaagcttcc	taaccctttt	gtcatatata	240
tatatatitt	ttggagtctt	gctttgtggc	catgctggaa	tgcaagtggg	caatcttggc	300
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ttcaccatgt	tgccaggat	ggtctttgat	ctcttgacct	cgttatctgc	ccacttcagc	480
ctccaaagtg	ctgggaatac	nagggtttaa	acaccggacc	cagnctcctt	tgcatntct	540
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<210> 8535

<211> 580

<212> DNA

<213> Homo sapiens

<400> 8535

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tgagtatcc	tatctacat	ggcctgggaa	tggttggtct	catgctctgc	ctggcagtta	180
attgttcaca	agtgtcccca	taagtaactg	tcgagaagat	tctcacagga	gaccacgtgg	240
gttgccctgaa	gaagccagag	tgaaggaggg	ttgaaatcaa	cgcttttaga	gtcttaggaa	300
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tcccagaaaag	tgggcatgca	gtttcccagg	ccagacgagt	gttcgttgct	caccgaagac	420
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cccgttggtg	gggactctgc	tnacacngaa	catggccggg	acacctgtgn	ccgtggtgac	540
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<210> 8536

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8536

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09629469-072300

accatctctt	aaaaatggga	gaaagcaaac	ataggacgtg	aaaagttaaa	gatgcgtgac	120
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gcagcagtta	caaaatgttg	tctgagtgat	tctgagagct	caaaacaagg	atccgcgtat	420
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cangtggaat	tcctgtgtaa	accttagtag	agatgccact	nacggngacc	aaaagtnaaa	540
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<210> 8537

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8537

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tacaggcaca	cgccaccatg	ctcagctaac	ttttgtattt	ttagtacaga	cagggtttca	180
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ttaaatgcta	ctttctcata	gacttcccta	gactggtttg	caatctaagg	taataggaaa	360
caaggcattg	ggcattttga	agaaactgca	ggttaagcta	tggtgccaaag	cagaagacta	420
aacactgatt	tgagtgtcaa	atcttcagca	cgttctggga	tagaggcagg	ttctcaaatg	480
gttcctanng	gtctttinct	ttcactaant	aaattttcct	tttttgggga	atcnangcag	540
atacaaacc	ctggatggcc	tttttggcna	a			571

<210> 8538

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8538

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gggtcaatga	aacatttaatt	aaaaacattt	gtttctctat	ataatacgta	tgtataaaat	180
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agaggaacaa	attacagtaa	ggggtataca	tttatgaata	ctggtagtac	tagaggaaag	300
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<210> 8539

<211> 543

<212> DNA

<213> Homo sapiens

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<400> 8539

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<210> 8540

<211> 593

<212> DNA

<213> Homo sapiens

<400> 8540

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tatacttggg	cctctcactt	cagaataaca	gggctattta	ttgatacaaa	ggagagggtg	360
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cacatccttc	ctcaaaggaa	ggctcatgag	taaatttgta	tgcaagtatna	agcccaagta	480
gagggtgtat	tttaatgact	actttgctta	catttttagat	tgngccaaat	gtctcaatca	540
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<210> 8541

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8541

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<210> 8542

009220.69462960

<211> 537  
<212> DNA  
<213> Homo sapiens

<400> 8542

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<210> 8543  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 8543

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<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8544

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<212> DNA  
<213> Homo sapiens

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<210> 8546  
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<212> DNA  
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<210> 8547  
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<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<210> 8549  
<211> 539  
<212> DNA  
<213> Homo sapiens

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<210> 8550  
<211> 570  
<212> DNA  
<213> Homo sapiens

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09629469.072800



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<210> 8551

<211> 536

<212> DNA

<213> Homo sapiens

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aggaaagctt	tgcatatgta	gatatagaag	aataagctac	gtaaatacta	aagatatgnc	420
attctcccaa	aggagacaca	ggtgggtttc	aatgattcct	tggcttatgg	tgatgagtct	480
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<210> 8552

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8552

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ttggatacaa	ttaagtctcc	tcaacacact	attttatcgc	caaacttaca	ttctggcttt	180
tataatcatt	ttgcaacacc	tggtagagta	tacacctata	gctttgccat	agaaatgccc	240
ctaaatgccc	ttcagagagc	agaggtgaat	actttctcat	gaagaaacgc	caacttttct	300
aagcgagttc	gtttcagtag	tgggagccat	tcccagtagg	ataactctac	cacacggtag	360
ccaagccgag	ccagctgccg	cctcttcata	ttgtgcagtc	caaggagatc	cctggagcca	420
tagcaatact	ggttcctggt	tgtgaactga	acagccagct	tcattcttgg	ggtctgcatg	480
cangctgcgg	ggcacaagcc	aagccatctt	caatggccct	gattatctgn	tacattggaa	540
aaggaagccc	ccanangtac	agtggccttat	ttcaact			577

<210> 8553

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8553

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caggatgttt	tcctcagcca	ccctttccac	attttgtgca	gttttagtga	actataaaatc	120
actgacttct	tcaggcctaa	aagagaaaag	atgagaaagt	aagaagatgg	aggcttgttg	180
agtggatgct	cagagtttca	gtgacattct	gagcagactt	gtctttggag	gagggcagtg	240

aggggctgac	ccgtggctct	aggagaccag	ggagctgaag	gtgattaaag	gtcactgtga	300
tcaatgtagg	gggaaatgat	tctgatttcg	gcattttccg	atttagggct	atggatgcca	360
acggttccta	agttattggg	ataagtgatc	cttttgagtt	atgaacatat	tggcagcctc	420
tgaatttagc	tctttcaaaa	ggggtaggac	aaggataaga	ctctgtatgc	cactgggtcc	480
ccgtctnttn	agcctnaant	tcaacccccac	ttactggctc	tatggcctgn	gnaangc	537

<210> 8554  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

<400> 8554	
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gattttctgt	atattgatct
atgatttttt	gttggtggtta
agtggcccca	gaccaacaac
gtttttgcag	tcctttccca
catacaacct	gaactgaagt
gtggagccaa	gaagagaaat
tggggctgct	ttctggctct
gtncagaag	tattttcttg
ttaacttgta	anttggcctc
	ontgntaaac
	atttttgaaa
	acg
	60
	120
	180
	240
	300
	360
	420
	480
	540
	583

<210> 8555  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 8555	
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tcctcctgcc	ttggcctccc
cccatattcg	agcctaattg
aaaagaaact	gaagataacg
tttgtctcca	ggaaaagctg
acatacatc	ggcttccaac
aaaactaaat	cataacagta
cccacagttt	cctacgggag
gaaaattacn	ccaatntccc
	ttggaacntaa
	ggtanacctt
	gnggacccaa
	gccaa
	60
	120
	180
	240
	300
	360
	420
	480
	535

<210> 8556  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 8556	
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gtcccttaag	cacattttta
ttcatacatt	gcactggatt
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	aaatatccag
	ccagagttca
	aattttgcttt
	60
	120
	180

ccttcccttt	tcctcttgta	atgtatttgt	tgaagaatct	aggtcctct	gtagtcactc	240
ctctcccat	tcccagcccc	tggttaaccac	ttacctgttt	tctgacccta	taattttgta	300
gggcccactt	tgtactgatg	tacttctgac	taggtgtgtt	tatgttcaag	catcagagcc	360
aaggcccaaa	cctctaccct	ggccctcctt	ctgctgtggc	ccaactgtac	ccagagctgg	420
gctctcccg	ctccctgcct	gttaatccta	gaagtgggtg	ccgaggaggg	agaaacagga	480
agganggagt	tgggganggc	aacttggtac	atggacaaca	aggctgttcc	acttcancaa	540
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<210> 8557

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8557

gaataaactg	catgtttatt	ccaggctcgt	ttagctggac	gagcagtaca	gacagggctg	60
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cctaattgtc	gcgatgttgg	tcttttgaag	gaggcccca	cagagccgag	cttgcttggg	180
tatctgggac	tgctgctcag	tctgagtagg	ggagggtaat	gaaccagtca	ggcctcctcc	240
tggaggtgcc	caacactggc	ctagtcccca	aggctgacga	aacatggtct	ggcctgaccc	300
caggacgtgg	ggtgaggagg	aacactgggc	ataatatagt	agcggaaaca	ggcaagcctc	360
tatgggtccc	ttccccttag	aattttaggg	tagggaacga	ggaggctaca	gactaaattg	420
cagaactatc	tgcacctggg	ccttgagctt	ttctnctact	nccagtggag	ccattctnng	480
gactgagttc	atgangacta	ccanaagggtg	gcaagttcaa	tctggnccctg	gctt	534

<210> 8558

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8558

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ctttctgctg	gcattgggtc	tatttttcc	tcttttttta	ggttttttag	gtggaagctt	180
aggttactgg	ttgaagactt	ttcttttcta	gagcatgcat	ttagtgctat	atattttccc	240
atcagttctg	ctttatgtgt	ctcacaaatt	ttatgttggt	ttcattttca	ttcagttcag	300
tgcattttta	aaatttcttt	tgagatttcc	tctatgacca	tgggttataa	aatattgttg	360
ttcagttttc	aagtgtttgg	tgattttccc	attatcattg	gtatttattt	ctagttcggn	420
tcttttngg	ttggagaaa	tacttgtagt	atttcagttc	ttttaaatg	gttgangctt	480
ggtttaatgc	ccanggncta	tccttaaatg	gggggtccgn	gagcccctgg	anaaactggg	540
ntcngccggt						550

<210> 8559

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8559

cacgtagtaa	cttatagata	tatttggaaa	actgattatc	ttttaaaaa	tgactactaa	60
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acagattaaa	atgcagagtt	cattaaaata	cagaggatgc	ctctggttct	ctggtattga	120
ctctttttgt	ctactaagat	aagaagtctg	ggctaggctg	aaaaactcag	aatccaggtc	180
tggggtttcc	cagtactatg	ctccccattc	ccagtactgt	gctcccat	cccagtacta	240
tgctcccat	tccgagtact	gngaactccc	ctttcccagt	actgtgggct	cccatttccc	300
agtactgtgc	tcccatttcc	cagtactgtg	ctccccattc	tcagtactgt	atgcccattt	360
cccagtactg	tatgcccatt	tcccagtact	gngctcccat	ttctcagtag	tgtactccca	420
ttntcagac	tgggctccca	cttttnagta	ctgggctcca	cttccaagac	tgggctccat	480
ttccaatact	gggctccatt	ttgcaagctt	ggancccat	ttccaagacc	ngggttccca	540
tttcccagac	tgggc					555

<210> 8560

<211> 419

<212> DNA

<213> Homo sapiens

<400> 8560

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tggnacatg	gatttgctta	aaagggaaac	aagaatactt	naacatttga	tcaacagtag	180
gcagttgctg	gacatttttag	aaaaaggaga	aatccatttt	ttgaccatgg	ctaaacatgg	240
ggaaacagca	tcacattttc	ctgaaccacc	ctaattcccgg	cccctcaaga	tccaccaggt	300
ntgcaacccc	aaaccccagt	cacatacatt	aaatctacac	ttttattttt	tagntgtaaa	360
atgtgctttt	tcctcaatga	actttaatca	gtccaggacc	tacaaacnca	cncncannn	419

<210> 8561

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8561

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atcaccagaa	atccagaaga	cacctgaaga	ggactgactg	tttctttgcc	acggggaagg	120
tgtgatgaaa	caattaaaat	cccatgcac	cctggccctt	cctccacgtt	gcccctcaga	180
atgcctgcag	ctgcagcagg	caggaggcag	caggagaacc	cgggctgttg	aaggccctc	240
tgctctctg	ggaaagctgc	tggggaagcc	agaggtcaca	gtgcatttga	ggcctggctt	300
tcagccactg	gccaggccaa	aatgaaacat	ctgctcaagt	ctcccaggc	accttgctgg	360
gggtgagtgg	gagaaagaag	tggagaaaac	tgatgctgga	ccacaagtta	tcacctgta	420
ccttggcttt	gaagtggccc	ctgctggtac	aggaacaggg	tgagagtnaa	agttaattaa	480
ttaaagccac	atgctttaan	gnnaaaaggn	nccn			514

<210> 8562

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8562

ngtttgctga	ccttcacttt	tatttaaata	tagtgatctt	ttaagagaat	aaacaaaaaa	60
tactttacac	agcaaattatt	ttacataaat	gtaaacatgc	atgtctactt	cataattaag	120

caaaaaaact	tttaggcaca	agatttttaa	aataaagaat	gagacaatga	aaccaagact	180
ggaataacag	aagtaacaaa	aactcacatt	tcctaactct	tcaattgggc	ttgncttcca	240
acctattggt	taaggcctga	gtttcagaaa	tcctaccttc	cttgccaaat	agaaacatcc	300
actttggctg	natataacat	tatccacata	acacactaat	tctctttcaa	aataatgnaa	360
taaatatacc	attcatacac	acacacacac	acacacacac	acacaccctg	ctgaaccagc	420
ctntcaaata	ggaaaataag	gattttggaa	ttttcaaggt	ttcctnccac	ccaagcacat	480
tccnncnct	ttaccctcnc	nttggaaaaa	tggg			514

<210> 8563

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8563

cattggaaac	ttaactgatt	ctttattcca	actatcaatt	ttataacttg	agcccaatta	60
acattcaaag	ggtcatgatt	acctcttctc	ctaagtgggc	aactccatag	ttgtatagtt	120
ccccacata	atgccttcta	acaacatctt	cactaacttg	aaggtgatgg	gctaaatcca	180
cagctagagc	tggtccaatct	tggtctttcc	caaaaggagt	gggtgtggcc	tcttctgtgg	240
gatctttgac	ctttgtggct	gaatgttggg	cctggacagc	tgacttgaca	actttcaata	300
agaactgttg	tcgtacagaa	ataaaatttg	gatccatttc	cccactaggt	aataactgaa	360
ttgaagttag	gtctttgaaa	aatgcatttt	ttcccttact	gtcaaaaagt	gaaagtggct	420
tcacggnctt	cagagaaaac	ctcatgactg	catacaagat	ggagcacagg	atggantggg	480
gcttcaccag	tggttagtgg	gatgtgcttt	tggttaaggg	ccanttcctt	ntggaaattg	540
gncctttcac	ggaaagn					557

<210> 8564

<211> 526

<212> DNA

<213> Homo sapiens

<400> 8564

caccataang	gcncactaa	anggttttat	ttanaacctc	agcagcctgt	anaggctaca	60
caatttcagg	ttcatcagct	tttacaacta	ttttcaacgt	aagaatanaa	gctattanca	120
aataacttct	atcaaatnta	aaagggaggc	ctaggatntn	caacatcttt	gctttataaa	180
gatgcnccta	acatgaacta	acttgtcaac	tttanactnt	tacagcagct	caaacagttg	240
caaaanfaat	gaacatcagn	gatttctggc	aataagtctg	tcagtntnta	nagagtaaac	300
aacacttttt	taaagctaca	ttctagtctt	tcttcataca	ctacacataa	gaaagaaatg	360
caggttcaaa	aataaatcac	ccaaaagctt	ttccatgtcc	ctgagactta	accttcagtt	420
caacccaanc	angagataag	ngtntctcaa	aaggccttct	gaatctcaag	aatctgggtt	480
ccaacttgna	cattttntaa	ggatagncaa	taaggttcct	taaaaa		526

<210> 8565

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8565

attttgaaaa	gtatttactt	agttttaaata	aattaattgc	aaataaaaaat	taagctacaa	60
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tatatagcct	gaataaaaaat	gactagaaca	aatacaacac	aggacttgct	ttcttgcat	120
agtcacaaag	catgtgacaa	tctagaaaac	ttcaaaatca	attacatttc	tttgaaaaag	180
gggtaacagc	agttactgat	acatcacac	taataaaactt	ataatacaag	tttcctgaca	240
tgcatttcct	gagtgaaccc	aaatgatcat	tttttaaaac	aaggaagttt	cgacagttga	300
agtaaaataa	aataattcat	ggcttctaag	caacaagttt	tgntttttta	aaaccaaaaag	360
aaaattcaga	acagttttgt	aataaggataa	attaaaggna	tgctccacat	ataaaacttt	420
gctacagcag	ttaagtatta	tacacttttc	aaactaaagg	gaaacaatca	aaatttttaa	480
ggaagatccg	gctaactaaa	angnccnggt	tctacagggg	caaaaaaaga	attggtggaa	540
gcn						544

<210> 8566

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8566

acagaagtaa	agttttattac	atttgaaaca	atacagcaga	aacctcaaaa	gtttactcat	60
aatatagtt	taattcttac	aaatcttctt	ttgaaaatgc	aattcatata	tgctgcaacc	120
tcagaagttt	gaatttgaaa	tgaaatatga	aggtagtagt	cagggaagtc	acatcagagt	180
gccttgtaa	atatccaaac	aaatcagcac	atacctcttc	cttgatacag	gaggaaaaaa	240
gtgattctaa	atatatccaa	gtgaatgcag	aaaaatacat	tactatttga	ggcagaccat	300
gctaaaatat	aattttacaat	gattagtttg	cacttaagat	ggttaataac	gcattttaaac	360
caatgaaatg	aaggtttaagt	tgaattttgt	agtatttgct	cagtctctgt	ctaaacaata	420
gttcatctga	aaagtttgga	aaaagccaat	acctgatctt	ctctttatgc	ttatcatttc	480
tactggcatc	ttaaattgcaa	accaaatcaa	tccgcatcag	aatttttacc	ttttaaaatg	540
gaaactaatg	gcn					553

<210> 8567

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8567

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gggagaagca	ggggtaaaaa	aaaaaaaaag	ggggggactt	caccccctag	ggacagctgc	120
ttccaaacct	aacaaaaccc	cagggttaagt	cctcgtgctg	ggcctcgagc	cagcaacctt	180
agtcaaattc	caaggcaccc	gtcagcatgt	gggtcaaggg	gccactatg	gggacataca	240
ctcaagagga	tgaaagctct	ttagcttcag	aatcagattg	ccttccccag	accccacccc	300
aaaacaggct	cctctcccat	ctcccccttc	acagtgacaa	aacacaagcc	cacatcccag	360
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tctacataaa	gtgacatcag	tgcanngctg	gggaatttgc	tctactgggt	gaaagatatc	480
tgaggggccc	caaccagnon	ggccgagncc	ccttcaggna	gttantaccc	ttggaacttg	540
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<210> 8568

<211> 546

<212> DNA

<213> Homo sapiens



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tcattttaag	agcttatata	tttaattgat	gactgctctc	ctcatcaggg	acatttaaga	180
tatggaaaag	gcatttatat	acacacgcat	gcatgcacat	atgcttaacc	ttacaaaactg	240
aaaaagtaag	cccaagcatg	attaattaat	tactttgcct	ggatcaataa	atactagtct	300
caaatgttaa	gtgtactaat	aaggacagaa	gctatcagtt	acataaatta	tcattgttgc	360
acctactgat	gctccatttg	ctaatacgatg	ttagttagtc	tgtagacttt	atccaacaca	420
tacatagaga	ttattttttt	ggttgnttga	aattctcagc	agatcaacag	atctcttttg	480
gacatttctc	ttccattact	nttangatga	aaatggaata	cctnttaaat	taaaattttt	540
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<210> 8572

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8572

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gctgtgcttt	acatagcaat	cttataaaaag	aaatgctaga	atcagaaaaac	catcatttta	120
ggctgggtgc	agtggctcac	acctgtaacc	ccagcacttt	gggaggacga	ggcagggtgga	180
tcacttgagg	tcaggagtcc	aagaccagtc	tggccagctc	gatgaaactc	cgtctctact	240
aaaaatataa	aaattagcag	agcacagtgg	cacctgcctg	taatcccagc	tactcaggag	300
ggtgaagcat	gagaactgct	tgaacctggg	aggcggaggt	tgtagtgagc	cgagattgtg	360
ccactgccct	ccagcttgga	caatagagca	ggatttcgtc	tcaaaaaaaaa	agagaaaang	420
aaaaccatta	ttttgcaata	gccaatgtta	taatctacac	aggcacagac	tatcaatgct	480
taaaatcatt	ttaaaaggac	atcttaaggg	gtaattnccc	gaaatttgga	tttttgaacc	540
cttntgtaat	naaaattcn					559

<210> 8573

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8573

ggaaatcaag	ttttgttttt	atatgaacag	aagtagacca	tctagaaata	tttcagttta	60
tttaaatgtg	taagtagaat	atgaaaccga	atttgtagct	agtaccagag	aatggactta	120
actgttttgt	gtttaatgag	aacagcttct	acacaggatc	ccaagagact	tacagaaaag	180
gggcaaagcc	ctaataattaa	gcaaataaaa	ctcatgtttc	aaacagatta	tacaaaaatt	240
gatttatact	tcattttccct	tttttgatat	ttagaaaagt	cagatttaac	aaaaggtagc	300
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aaaatcccag	tgtttagctc	tccaacctta	agtcattgaa	ttgaataaga	attaaagagg	420
gttaaaaata	aaaagctaata	gccacattcc	agataaagg	aagcaccaat	acattaatct	480
aacaccagta	ggttaaccct	aacntttcaa	aagcttaaca	tcattcatta	tatttttagt	540
ggaaaatagg	gatnttc					557

<210> 8574

<211> 561

<212> DNA



<213> Homo sapiens

<400> 8574

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ggattacagg	catgtgccac	cacgcccagc	taattttttg	tatttttagt	agagacggga	180
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gcctcccaaa	gtgctgggat	tacaggcgtg	agccactgcg	cctggcccgg	ttttactttt	300
aacaagcgtg	agagcatctg	ttgctgagct	atgtgggcaa	catgcatgtg	aggtgcggcc	360
ctgccctcca	ggacacgcag	cttcatgagt	agagaagaaa	tcttatccaa	gggcgaagta	420
gcaagaacac	agcaaaccac	cgcacacaga	agggcgatcc	acaagtcaaa	ctggcanatg	480
gaaacagctg	agggctctta	ntggctccca	anggaaaagg	cgggctantc	tgagaactga	540
ngcngaaggg	acttgctggt	t				561

<210> 8575

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8575

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ttatatgtta	caataagcct	ccattagtc	ctcaaaacga	tgatataaat	aagtctgtac	180
aacctagcat	agagtaaaaa	actgaaacca	agattcccaa	cgtttttcat	agcagccggg	240
cacacttttg	tgaccccaac	gagaacctc	tcggcgagcag	ccaggagctg	ttcaccttcc	300
agaagcagg	cctgtggcag	cctaacagg	agaggccacg	gggccccaaa	acgcaacacg	360
tctcaaggca	aaccgcagg	aggaacttgg	tctgggagga	agagagaact	cgctcctcaa	420
ccaccccaga	cactggagtg	tcaggaaagc	actgagctgt	tggggcacac	tgncagccc	480
ggnccagcaa	gctaaccagt	cacagnttca	ccttcaactt	ttcaaggagc	aattttantg	540
gggaanaacc	ctt					553

<210> 8576

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8576

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<210> 8577  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8577  
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tcagtgattg taggagctgg ccagtcattg cttaactctg tgaggcaggc tatcagaagg 180  
gcagactgtc aggaactntc gccaaagcact gggctgctgt cctcaggcag aatttcttcc 240  
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ggctnaacct aaaatccc 558

<210> 8578  
<211> 522  
<212> DNA  
<213> Homo sapiens

<400> 8578  
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anaagccacg cacacctcct tccgcccagc tttatctttc cttgagctgt gacttcaccc 240  
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<210> 8579  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8579  
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gccagctgag tattaccatt ctgcagttca aggtagactg ccagcaagat ggccctcaggg 300  
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551

<210> 8580

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8580

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atttacataa	acattgcatg	aatatcacag	tggatatgta	gagaagggtg	ataaacctta	180
aaatgtaaaa	tatcaaagga	tcaaaaacat	ctaaaactga	cctggaatga	attatttgta	240
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tcaggctttg	tgagttacag	agtttctatt	gcaactaatc	aatgctactg	ctgtagtgca	420
aaaccagccn	taggatacac	gtaaaccaat	gagcntgact	gggttccata	gaacttattt	480
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<210> 8581

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8581

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tggccaaagg	gcgtacaat	cactttggt	ttttgtgaa	aaaaaaaaat	catggcaaca	180
gaaaagtgat	atggttttt	aacaagtaac	agctcacaat	tcagtaggaa	gctagaagga	240
aatgttacat	tacgagttca	ttatataata	tctggaaaat	tgtgacagta	atgggcagta	300
ttcttgatct	ttgtaaaagt	aaattgaaca	tttatgtcag	tgttaaaacc	tttgacataa	360
accagatcta	aatttgatgt	ctagtattta	tttttcttta	aattatctct	tatttaaaga	420
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tnaaagggtc	tctgacatnc	cttatgataa	aacctcttaa	cccttaccaa	ttttgggggt	540
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<210> 8582

<211> 493

<212> DNA

<213> Homo sapiens

<400> 8582

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agtgtgttgg	agcaaagttc	acgaaggcca	tgggctgact	gagctgtggt	gtacgaaatg	180
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gccgctccag	gtggatgttt	ggtgacctga	agggcccttt	ccagtccaag	ttggctttgc	420
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<210> 8583  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<400> 8583						
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catccctgga	atgtctacta	ggaagaagct	gctagaaaaa	gacaacatgc	tactttaaa	180
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aataataagg	aatggatttt	atctatatgt	acagttcttt	naaccttaag	agtgaactgc	360
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<210> 8584  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 8584						
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cacctgatat	tctagtaaaa	gaaaagccat	aaggggtgtc	tactcctatc	acataattaa	180
tcattctata	aaatctctgt	aattaaaact	gaaatattga	cacatgaata	aacagaaaga	240
ctagtgggaag	agaagagaaa	tctagaaata	gacttaagtc	cataaggaaa	atcagtatat	300
gatgaaggtg	ttatctgaag	tcactggagc	atagatgggc	tctctaatta	aatgggtgctg	360
gacaactggg	tggccatttg	gaaaaaaggt	aagattagaa	tccattcctc	atgccatnca	420
cacaattaac	tccaaattta	agaagaatg	acaattgaag	aaagtgtgaag	agaattcctc	480
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<210> 8585  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 8585						
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gttaacatgt	catgcagtta	gggggaggga	gagaggggag	agggcagggg	gggagtcagt	180
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gcctggcctt	ggggctgggc	catggctgtg	tcaggtaggg	aaagccacca	tcctgccttc	360

0092706946290

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ggagggtggg	atatagatga	tottatctaa	tcttccangt	tcgtaacaaa	ncagtatntt	480
aacacatcag	gtctatttgn	tgcttgcaat	aatcntgaca	cttnggggta	aaaaacttnt	540
tgaa						544

<210> 8589

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8589

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ccaggctgga	gtgcagtagg	catgatcttg	gctcactgca	acctccacct	cctgggttca	240
agcgattctc	atgcctcaac	caggcgccac	cacacctggc	taatttttgt	atttttagta	300
ganatggggt	ttcaccatgt	tggccaggct	ggtcttgaa	tcctgacctc	agggtgatcca	360
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ctaaccaatt	tgggattctg	gttggagttc	angaaaaact	aaagttccca	ttactttcag	480
aatatttttna	aaataaaaaa	tcctgatgac	ttgtgangga	aaaggaaaaa	atttnaaatc	540
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<210> 8590

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8590

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gtcagaacat	ggagcaaccg	caactccttc	gcacttgtgc	atgtgtgtgc	gctcgcanac	180
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caacaatgac	ncggagaagg	caagacatac	actggggcag	ctacttcctt	ggcacaaaaa	420
tgaacaggca	acaagaagggt	aanggaggtg	taagttaatc	tcanggttaa	accacttttn	480
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<210> 8591

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8591

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taaggcccat	ctcatttcca	ggatcactag	tttctgctta	tgacgggggtg	agcatccgcc	180
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aactgtggag	tgtingacacg	ttccgaggtn	ggcttgacat	cctgaggctt	gggtggtgtg	420
aaagggaan	gaaagaagg	caggccccg	ggcttttgct	ggctcttgct	tttaaggcca	480
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<210> 8592

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8592

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<210> 8593

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8593

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ggaacacatc	ataattaccc	atagcttcct	atcagtgtaa	gttcagggtca	ggtttggttt	180
caaattgggtt	atgaaaatac	ttttggtttt	cagagcattg	ggacttttga	aatgaggacc	240
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aacacagggtt	tctttgccc	caaaattccg	ttcctacctt	ctttgncttc	cttcccccaa	360
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<210> 8594

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8594

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<210> 8595

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8595

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<210> 8596

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8596

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ttgtttcaaa	acttnccatn	gtcccccagg	gatcaaggtc	accctccttn	attcngcatt	480
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<210> 8597

<211> 450

<212> DNA

<213> Homo sapiens



<400> 8597

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<210> 8598

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8598

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<210> 8599

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8599

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aacaatctag	aagactgact	actcttcatt	aaaaaaggta	acctagagtt	gactgtcact	360
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cagctcttct	tcagcatccc	aataaaccac	accttcacat	gacagactnt	tcagaaacag	480
aggaccacaca	gccttcagca	gcaatnccag	ttaaccaaca	gagttaacaa	cacgcaacat	540
taactgnctt	ttgggaaa					558

<210> 8600

<211> 425

<212> DNA

<213> Homo sapiens

<400> 8600

caaactgaga	aaaagcagtt	ttaatagcac	acacacacac	acattcatag	gactttaaca	60
agatgtagta	taaaatcttt	aaaaaaaaaa	aaaaggaaag	aaaaaaatct	gtatttactt	120
cctaagagct	ggtggattaa	ctggctgaca	ggactgcccc	ggaaaaacaa	atgcacagat	180
aatgaggtgc	gccgacactg	ttcatgagta	aggaataacc	atggatcatg	ctaactgctc	240
tacgtgcccc	gccgcctgga	ccctactgtt	gcctccttag	cgacaaacca	ccacagtcat	300
cccctaattc	tccaactcag	tagcttggtt	aatgggctac	ctcttaaaat	tttcattttt	360
aatttaaaaa	ttactctngg	nttaaagacn	ccncacnttn	ttactggcca	gtcccnacca	420
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<210> 8601

<211> 458

<212> DNA

<213> Homo sapiens

<400> 8601

caatgtcaaa	atgtgtactg	cactttataa	aagcatggat	aatattaaag	gatcacaaaa	60
ggcagcatta	gcattctcta	tccaggattt	attaaatctt	tttatcccat	gccccctca	120
aatataggag	aattattatc	tgataagcct	gaaacgactt	ttttaatacc	ataacctaaa	180
aagacacttc	ttacagggtg	atgcaacttt	ggtcagcaga	aacacaatac	gagcctctgg	240
cctagctaag	gcactctatt	ctgaaaagta	ggaaaacatg	cacgtatgct	ccttatcatg	300
gcattgctcc	ccaaaaggca	gctcactgta	tgctggggag	aaaggctggg	gcatgaagtc	360
accacaata	tcatgcataa	gcctgaaaga	cctttcatac	tttggaatg	ttatagtaat	420
tggcatgaca	taaatgcnc	cagntntntg	nantgang			458

<210> 8602

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8602

caacacaatg	gccctgcctc	ccaccgnttt	atttctttcg	gtttcggatg	caaaacaaaa	60
aattttaaaa	gaaaatgtga	cttcaaagga	aaagaacaaa	tttccaaaga	cttggggggag	120
tgaaggcaga	gcctgggtgca	natggacgag	gtctgcagac	ggagggcaga	ggtgggtggaa	180
ggggccagg	gcctgcaggc	ctccccctgg	aactgggact	ggtctcggtc	tgctgacgtc	240
agggtcagct	ccccgcgga	gctgacttca	gcagcccaca	gctgtggggc	ttcagcagcc	300
acaccagccc	agcccagccc	agctctcgat	acgtttggtc	tttcatgctg	aaaaataaat	360
aataaagcct	gtcccgtgtc	tactgcctcc	cccaactgca	cagacgccag	cctctaggcc	420
tgactgccan	ggaggtggaa	acactggcac	cagcccggca	gcccctacan	gccccccana	480
tggctgccta	atgcctctg	aaactgcana	tncttcaact	tggccttccg	gccttgggnc	540
annt						544

<210> 8603

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8603

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attctccttc	cccatctctg	ggtagtgcca	tcattttta	aagcaatgct	caaataacag	120
aatggaacct	ttatcatggg	gatggccctt	gtacaacagg	agtacaaagg	gottacaaag	180
tgagtagact	ggctcaaaact	aacaatcacc	tttgctttgt	tttagcactt	tgottacaag	240
tgaatgggct	tctaggggcta	agttattagt	tttcaattcc	ttgtaatttg	ataccaaaac	300
atatcaaaaa	taataagcta	aaacaatatt	caaaccata	ttttattggc	tttattacac	360
acttcaatat	ttacaaagtt	aaagttaa	gaaaagtctc	tattgtatta	aaaaaaataa	420
ctacagccca	aattaaagtg	ccctggggca	aatcatatca	atcaactaag	aatcagtgac	480
tggatcaagg	acccaggcca	gtctctgnng	tacaaccaa	gccggtttat	tttggganca	540
anggttggga	ctctatacaa	tccc				564

<210> 8604

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8604

gcaagataag	gcactttgtt	tttaattcta	tcagtctctt	tagaatgaac	aaaggctctg	60
gtcctctgga	aatctcaagt	ggtgctgcct	gcagcttta	aaggctgagc	acaaacccat	120
cagagagcca	cagtcctaag	tagactcctc	ggtgcgctct	gccacctgt	ccatgtgcat	180
tcagatttct	cattaaattt	tccacagcat	gaccagtggg	gatgacctgg	gtggcctttg	240
tgtccatggc	cacagcctag	gtacccacct	ggcatgggtg	ctccacaggc	gcagcgagcg	300
gttttctggc	ccccgctgga	gcagaagggt	cagcagtga	acacgcctga	gtgtgggcgg	360
tgctttctcc	tcaccgtcac	agtgaatggc	gagccctgca	catgctgntc	tttgatgcag	420
accacacag	tatagacgcc	aggttccttg	ggggtttag	gaaatgtagt	atgtccatcc	480
ttggtatcct	ggaccattgg	tctgactggg	ctgctttctt	aactttangg	gcaacgggaa	540
ctttgaacgt	tgtntcctcc	t				561

<210> 8605

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8605

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gtaacttttc	caaaaaacac	caaaaagtnc	agggtaaagc	acctcctcgt	taaatncaaa	120
ctttcattnng	gngatgcacg	gcnccaatgt	tttgcatatn	ccttgatgca	aagaaaagtt	180
taagttgcat	cctgttttta	aaaaaanccg	aaacttaaga	actgaacaag	gattacaacc	240
acattccaat	aaagaaaatt	ttccttcaac	aaagcatatt	gttttgttta	tatncaatat	300
gngaccacca	agagttttta	tttagttgta	ccaaaggcaa	aacattntac	ttaaaattaa	360
attnngatg	cntgaagaat	aaaggtttta	ngttcaaaga	ataattgggt	atttaatgcn	420
ctcaatgtca	gtatttttggg	gcaattttta	aaggttttcc	caaaaaatgg	nctggatagg	480
ctttatccaa	taatngggta	agaacnggga	aatggaaac	ncctttntnc	cattttttnc	540
caaacccttt	ttaaagacgg					560

<210> 8606

<211> 447

<212> DNA

<213> Homo sapiens

<400> 8606

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cgcccgctc	ggcctccaa	agtgtggga	ttacaggcgt	gagccaccgc	gcccggccat	120
catttctatg	ctaccatctc	agcatctgtg	gtgaggggag	gggtgccact	tcctctttgc	180
ccagcgagag	ggcgtactct	accccagaga	gggaaacacc	atgcccacag	tgcttggttt	240
tgcactcagg	tgtgcgggca	gcacagcagg	cctcaccttg	cagcactctg	ggcacaatga	300
cactgtccac	tggggagctg	cagagcttaa	cagctggctg	ggtctgccct	cgggggaagg	360
gaagagtttg	cnaaaaaagg	aggccctaag	gtgaggggaan	tttggggccc	accnnccagg	420
tttaaagagg	aaacctttta	ttnncaan				447

<210> 8607

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8607

atTTTTTccc	ttgacagtac	tttattaatt	ttcatccata	ttttacttga	ctaaaaatac	60
aatgtatgaa	aatttatctt	taatagcatt	ttccataagc	tactataaca	atttattgat	120
acatctggga	ttcagccagg	tottatagta	tttaaattta	taacccttgc	catgcttagc	180
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catttgtaaa	tacatagatg	caagactgtt	tccataggaa	gtcacaaatc	ctcaaacaga	300
aatatgtgtg	ttctcgatgt	taccctgatc	agaaatcaaa	cttggaagaa	atattttttac	360
attagaaaaa	ggactcagta	taaggngaaa	acaaaattnc	cagtgggcta	gacatgaaca	420
aaagtattca	ttccccaan	gcacattctt	tatacagggt	tttcaaatta	ntctctatta	480
atggaaggct	tattcattaa	atatgaaact	atgcctacat	taaaaccngg	atttggtttn	540
aagggttan						550

<210> 8608

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8608

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ggtataaaca	tttttccaaa	aagagaaaaac	tattgcattt	cgttagaaat	cgcgtcctgg	120
gccgaggctc	gtctttcttc	tctgcagtgt	gtttggggac	agaactccag	cacgcagctg	180
tccaactgca	gcggctacgt	gtttccatgg	agacaaaactt	ggtgtctcaa	gttcagggtc	240
tcgaaagtcc	cgaatatttg	tttgtcccga	gagaagagtt	ttgactttga	agagggtccag	300
gtgggactcg	ctgggggttg	ggtgctccgg	gattagttca	nagggaggtg	tctggaagac	360
tccnggaacg	ggacgcagca	ctgntgggtg	gacncacccg	gatgctgntt	tcttgaagtg	420
tgcttgtgac	actgacctgt	tgacaaaactc	ttcacagccg	nggcttgatg	tgacgggnac	480
ttggcagaag	tcccacatcc	ttctggtgtg	gtaaacttct	gggttingatt	tttgaaa	537

<210> 8609

<211> 426

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 8609

aatagagaca	agttctogct	gtgttgccca	ggctgggtctc	gaactcctag	gttcaagtga	60
tcctcctgcc	ttgtcctgcc	gaagtgctgg	gattacaggc	atgagccgcc	acgcccagct	120
gagattacat	tactttgagt	gtttaattcc	actatgacag	gaagtagcct	aatacatact	180
tttttggttt	aattttctgg	attcatcctg	atttttagtc	ttcctacctg	agtacaacaa	240
taaaggaaat	cacttcttag	atacattaaa	attacttcta	aacttgcccc	ccacacatga	300
actgttttca	gtttgctatt	tttaatggnc	catgcttatt	tatatagaca	tagcataaca	360
ctgntnacac	tttatnggcc	actggcctct	ttcttaanan	tatantataa	aaaaattttc	420
tatatt						426

<210> 8610

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8610

aaagtccata	gatttttaatg	aaattttctat	tcctgtctct	gagcggctgc	tgtgctttgt	60
ctgggtcccc	caggggacaa	gagtcaggct	ggaatgagac	ctctgtctgc	caggcctttg	120
tggaggcctg	ggaggagaaa	ggccaaaggc	tttgatgctt	gggaccgatg	cccggccact	180
cagctccaga	caccagggat	ctggcaaggg	ggtggggcaa	gggccagaca	gaccaacagc	240
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tgangcggca	gcggcagaca	ggtgccctgt	gggcagaagc	cagagcctac	ttcgggtganc	360
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ccttgggctt	gactgnaact	gccgtcccaa	cgggtgggtan	ccactggnc	caagtcaaag	480
taggcttcca	naagaggtgc	aagcagcanc	actggaaaag	gtgcaacccc	caaagggaac	540
cggggtntna						550

<210> 8611

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8611

ccaaagaagc	cccattttat	tacagagaaa	atacaaagcc	gtttcctcac	agggaaaagt	60
acagtttccc	ttctccaggg	tgacagatga	gccttttccg	aagtctctcag	ctttctcttc	120
tatcgaaact	tcccatgtcg	gttaaagtgt	ttgtagagat	agcggatgcg	tttattaagg	180
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ggcacaccaa	gagagaagct	tctgcacgcc	agangcacc	agtnccaagg	cgcctacctg	480
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aaccccagaa	gatgccngga	ccong				564

<210> 8612

-3350/13211-

<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 8612

gacaggacaa	ggttttattgg	gggtcctgga	aacactgggg	agagggaacna	gggggcaagg	60
tcgaggctna	caggggcacc	ccctagccaa	atgccccctt	cccctaggga	ttgggaggaa	120
gacagagaca	gacaaaccaa	cagagatgga	gagaaagacc	aacggatgct	acggagagag	180
ggaaggaaac	cccagtgtcc	accacctncc	actcagatga	gttcacagga	taaagaattg	240
cgtggaccgg	tccacacgct	ncaggaaaag	agaggagtgt	ccgccctatt	cactctaagg	300
aaggtggcag	gccacagcct	aaaccagccc	attccatgtg	atgggggtgt	ntgcacatag	360
atcaagtcca	ttctactggg	caaggggatt	tcaggccagt	ctattctant	gtttgggggc	420
cggggaaaat	cgttaggggc	gatccattcc	cantcgggga	ggggggattn	nanggcangg	480
ggcattttcc	ttggnccctt	ttt				503

<210> 8613  
<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 8613

ggacagcatt	tcatttttatt	atgtaactgt	agaaagcctt	gatcaagata	aaaataggga	60
tgacttatca	gaaactgaag	aattttctta	ggaaagcaaa	gtttactgaa	ggataccttc	120
attccagcca	tgatgagcat	ctgtcttctc	aggcaatcat	gatgaagctc	cagggacagt	180
ataaccatc	tctccactc	atccctgagc	cttggtcctg	gactgaatgt	ggttagaggt	240
tgtggaaata	aaaaaaagaa	ccaaaataag	aacactctcc	ataaaagcca	agctcagaga	300
ctggtcctct	tttgcttagg	tacaacagga	gcaggaagga	tcaacattct	tgaaagcata	360
ccttctattc	atttggtctt	ttttgacttg	gggcgccagt	gtagagctga	gcactccact	420
gccctttctc	cactcacaaa	tgtctgcata	ggtcacgtcc	ggcactttca	agcctccttc	480
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ttactcctnt						550

<210> 8614  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 8614

gaagtatttt	tgtttttttta	tatacagaat	acaggaaagt	ttctgtaaag	tctaaaacat	60
tacaattact	atgtacattg	gtactggttg	gggggggtggg	aggagaggag	ggaaccaggg	120
gcaggaggaa	gaggagagaa	ctggcaagag	aacaaaataa	ggagacanaa	caggtntacg	180
acaaaaacat	ttngctacn	atagacaatt	tganaaaacg	ctctaccaca	tgtagtactg	240
tacacggnnt	t					251

<210> 8615  
<211> 560  
<212> DNA  
<213> Homo sapiens

09629469.072300

<400> 8615  
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tattacaatt atgattcgta gactttcact caattacata aattcactct cggttgagga 180  
aaagagagag gtggcagagg attaatccaa aggatcctgg ngtccactac ccttcaaagc 240  
cagaccctgg tggggcaagt cctgccaaagt catcagggtgc tgattaaatg cagggcactg 300  
ggtgggaagc aaattcctaa aatgtggttc tttccagaag catcttataa tctagctcag 360  
gggcttgagc gtcctaactc actccggaat cacctgggga gcttctgaaa ccattctgat 420  
cctgaactcc ccctaaataa atcaaactct ttgggccata aactgnaana aaaaagttaa 480  
atcttcacag gacattctaa tggggcagcc cnagaggnga tcccctggtc tanggttttc 540  
atnaaatacc ttanaaatg 560

<210> 8616  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 8616  
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gcgccctaact gaaattatta gactaaattc ttagtaaaca atgttttctg aaccttggtc 180  
agaaatataa tcactgcaaa ttattttcca agtgttggtc taaaaaaca tataactgga 240  
cactagtaag aaagtaagggt aaattattaa tccactcgca ttcaattcta caaggaatga 300  
aaccattttt aaaagtggct tagaacaac aatttactga gcacttacta tgcacccacc 360  
aggatatatt cttttataat gtaatcttca aaatgagctg tcaaactatt ggccatttt 420  
gtgaatgagg aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa 480  
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atcttatggg attacctgga a 561

<210> 8617  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8617  
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cccgtatttc cctctgcccg aatgaggagg ggaggggct cctgggtcct gcagctgtag 180  
tcttgggggtt cagatggaaa cttcatactc ccgcgtatcc ccagcttcat acagcgggtt 240  
gctgaagtcc gactccacgg tgatggggct gtaggagtgg gagcccgaga agccgaaaag 300  
ggactttccc tgaagcttgg tgtagtagat gtaaacgcca ctgccgagga caatgaccaa 360  
gcctagaggc agcaggatgg ccagggccag gttccccct tccagctgcc gtgatggatc 420  
tgtggtctgg gtcacttcag ttttcgngtg tccaggagct cctcatangc aactttgcag 480  
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ncccataact naaagcccta tn 562

<210> 8618

<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 8618

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atataaaacc	tttgtacatt	tttaggtatt	tttcccttca	atatttaaatt	aaacatgatt	180
tcttctggca	tgtattttaat	gttaagtga	catgatttta	attagtcctt	ttttatcggt	240
atctcagcca	ttataaaaagc	cataaatgtg	tttccagaaa	aagtgccttt	gatattatta	300
cagtattctc	tcataaaaata	ggagggtacgc	ttgtgagttt	agtacttttag	ttgtaggcac	360
agcttgccaca	tgtgtgtcgc	tgatgtgaaa	ccactgccct	tttgattcca	tttcaaaaatc	420
ttgtggaata	tcaccgtgaa	gaacangatt	agagagatga	ctatttgcgg	gtcttgcctt	480
ggcataagca	gtgtaatgcc	cgcacctata	gtccnctgng	gtcaacaacc	tcnntttagg	540
gatnagtcct						550

<210> 8619  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 8619

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gctttaaaat	aatctacact	caaaaaaaga	gagagaaaga	gagagacctt	tggaggaaat	180
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ctcaagtgtg	atgtttaaaa	gcttcacaga	catgaatatt	acaatcttca	ggtctcagga	300
cttttaattc	gagaaagttt	agagtttgg	ttgtttttta	aattcacttt	ctaaccacaaa	360
caaataatag	aagtactcaa	atcttactca	tttacaactc	tcagcctaca	atctgaaatg	420
acacaataca	agttctctta	aactgcagca	ttaaagggtg	ggcacaccat	tcttctgctg	480
ctcgattgnc	atccactgga	acncacnttg	aaaatatatta	tggtagtaaa	atgatcncct	540
ctgtncctc	aatngccaaa					560

<210> 8620  
<211> 528  
<212> DNA  
<213> Homo sapiens

<400> 8620

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tatctcacaa	catttcccct	tggttcctga	atgttgctaga	ttcctatgta	ccagcaaatc	120
tccattagca	tttctcaggt	ttcatgatcc	ttttcagata	tgttggttga	ttttatgtat	180
atattgctta	gaaacaaaaa	tccacctgat	attaaaacaa	acaaaaaaa	atcataaaaag	240
caagcaaatg	aacaaaaaac	cctagttttg	ttgtgctttt	ctttcacatt	tcctacaggg	300
agatttgtat	atctcagata	ctttcaaaaat	ctaataaggta	agtaaaatta	gtgccttaac	360
caaacagtaa	ggataccaaa	gaatcctcca	tcacaagtta	ctgaatcaaa	cttctcatga	420
catttgcnng	atattcagat	ttgaagattt	ttaaatttag	aatttaaacc	aacttttagac	480
tgctgatttn	catattcaag	actggaagtt	gntgcagcat	ataaangg		528



<210> 8621  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 8621  
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acatttggtc tggatactga attagtatga cacataatat tctaaaactt tgctttctct 180  
atgctggcct ttctcaacta aatgaaagca agatatgatt tttggatgct taaatagtag 240  
ctaggatatt tcttattcca gaacacagaa aaaaaaagcc attaaatgtg ccaccataaa 300  
taaaattttg ttactatttt aagtctaaaa ataacagtaa tataatcatg attcatttta 360  
catgtttctg aatttatatt atcaaccagc agaaagggtt atatcagaca ggtaggaaac 420  
ctctgacaac gacagaagaa gtgaactgcc aaaaccatgc tgaagnggtc tttaccctcc 480  
gcttggcact ggancangga ngtgccgcac acctggcctg gtcacctgnt tgggt 534

<210> 8622  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 8622  
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aggaaactnt tgctaaataa gtagcaatta tgctgaanaa tttatatgct aaagcacgaa 180  
tgaatntaaa aacaccagag cagtcaacca tagctttagc actttgagta tgattaacag 240  
aatgaacttc caaaggncaa ttaaatgtng acacacttta aagagatatt nttaagcctg 300  
gtcaatgtat aacagcacct nttaattcag gggtatncgg nttaatttag gcataacatg 360  
catgggataa atgtacatat atntncngaa ttaccacatg tcttcnacca gattactaca 420  
gaaacttcat gtatcaccta cccctaagag gttttggcta tgtagtnttc caggttntga 480  
aatggattaa aggaaacctt aatttttttn ctttggnaen 520

<210> 8623  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 8623  
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acatttgtct acagtatcat ttccattatga aatgaactag tacagcttag ttaaaccaaa 120  
tgaaatcata atcatcagaa ttgtctgtaa actactatta gctaaattat aaccttgcat 180  
ttgcttagta cagccaaagt tttaaatata gaaagcacaa gaataaacca atggtaacat 240  
gtagaatcta gatcgtcggg gcaatttaga aggtagactt tcaaaaagtc tgaggcacaa 300  
ttacaagtga gtaaaagtgc ttgtgcaacc tacataaacg cagcanagaa acttatgaca 360  
taaaacatgg gaaagctcct gtaaaaaata tttatcanaa tttttctac ataaggatat 420  
tttngctttc attttttagaa tcagcctnga ngagaaaaaa cattcctttt aaagtnaaaa 480  
catatatatt tggtttgggt ttgcctatga aatatcttaa aaatgnnggn aatttttatt 540

00629469.072800

t 541

<210> 8624  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 8624  
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aactactata aaaacattcg ggggttgtca aagtgagaaa acctaaagac cccaccccag 120  
gatctggctg aagcagtcct cccccagctt cttcactatg accctttatac aactatgggg 180  
gtgggggtggg atcacacagg cataaaaagg ctggaaattc cccacacagc ctccaagggt 240  
aagaaatgag tagcttcaca tatcacaaaa gtgggatttg gaagtttggg ggtggctagg 300  
ccctgagttc agagggtgtg ggaaaaacct gtgacctga atctcttggg ggggaatagc 360  
tgccacctga ccccaaagcc ctttcccttc ctgatgaagc tggtagatgg gccctgtccc 420  
caccttttag ccttaatcct naggcccatt tcctggcctt cacccttgga acacttctgg 480  
aaaaccagca gggaggacag aancctcagn ttttganggn ggaggg 526

<210> 8625  
<211> 511  
<212> DNA  
<213> Homo sapiens

<400> 8625  
cttaacactg cttttattaa caagtcagct tcatatatga aaggctcatg cttctaagtt 60  
gcaaattgta ctgctactaa gagtcatcgt gaatgaaaac acagcaatat ttcaatatac 120  
cagaatttcc caaagggtgt tctttagaac acaagttcct tgcagtgtta ctaggtgcc 180  
ctcaaaaaag tttctgttgt caaattaatc tggaaaacac tgggctaact gacagtagat 240  
atttgttgtg tttttctctc ctcacaggac atttaaatta gagcctttga tgtgctcatg 300  
ttcactaact ttctaagatg gnatgtgttt tccaaactta tttcatccta gaatcctata 360  
tttagaagag catctttgga acttngnttc tttggaacac actttgggaa acactggatt 420  
ctattatttc tacagctaac tagcccaaaa ggctagctat caatggctta atncagangg 480  
catttaacn ggcttngntc taccagcn n g 511

<210> 8626  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 8626  
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tattctctgc tatatgctag atattttact tgacttattt ttaatcttta ctgtaacaca 120  
tctaggcaaa atattaatat acctatttta caaaaaagga aacacactca gcaattttta 180  
gggacccagg agccagaatt ccatttcttc caatttcctt caatngnttc acgatgtatc 240  
aagtaactcg ttcatttagt caagcaacca ttttagctga tttagtcact gattcaacta 300  
ataacattta ctcattnct tagatttggg aggcatactg tgatagctgc aaggattatg 360  
ttaaagtgtc gtgaaataat ggaatgtgga ttggctcatt tcatcttaaa gatcctgtc 420  
acagggcacc aaacattaaa ctaggtttta aaattaaaat ggtngacatt ttctngngcc 480

09529459.02300

agaaacttng ggtcaatttg ggaangtttg gtggggnaat ccaaaacatg 530

<210> 8627

<211> 515

<212> DNA

<213> Homo sapiens

<400> 8627

gagagggagt	ctcgctctgt	cgccaggctg	gagtgacgtg	gcgtgatctc	ggctcactgc	60
aacctccacc	tcctgggttc	aagtgattct	cctgcctcag	cctccctagt	agttgggact	120
acaggcatgc	gccaccacgc	ccagctaatt	tttgtatttt	taatagagac	agggtttcac	180
catgttggcc	aggatggtct	cgatctcttg	accttgatg	ccaccgcct	ccacctcca	240
aagtgcctgg	attacaggtg	tgagccaccg	ngcccggcta	atTTTTtga	TTTTtgtat	300
ttttaagttg	agatgggggt	tcaccatgta	gaccaggttg	gttttgaact	cctgacctca	360
aatgatctac	ctgtctcagc	ctnccagant	gctgggatta	cacacatgag	ccactgcgcc	420
ggcatatgta	acatttttaa	tacctgactt	ncttaacata	aaggngagaca	gcntaaggnn	480
gctggcnctt	gggaaagggn	tttccttttc	ttttt			515

<210> 8628

<211> 470

<212> DNA

<213> Homo sapiens

<400> 8628

caactatttta	aaaacgtaaa	aactattctt	aggttgaaga	ccaccagaa	gcaggtgggtg	60
tgctagatttt	ggcccatagt	ccaaccgtac	tttctgtgat	gatggaaatg	ttcaatattt	120
cctcaatttgt	ctaataatgt	aaccactagc	cacatgtggc	tactgatcat	ttgaaagggtg	180
gttacatgga	ctgagaaact	gttttttttt	tttttttgag	atggagtctc	gctctgtcnc	240
cccagctgga	gtgcagnggc	nccatctcgg	ctcactgcaa	gctccgcctc	ccgggttcac	300
gccgttctcc	tgctcagcc	tcccaagtag	ctgggactac	aggcgctgg	ctaatttttt	360
ctatttttag	tggagacggg	gcctcaccgt	attanccagg	atggctngat	ctccttgacc	420
ttcngatct	gccncttgg	ccttccaaag	ngctgggant	cccggggnta		470

<210> 8629

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8629

accagaacat	cacataagtt	tatttcagat	gtaacagcaa	tgttaaaatt	gacaagttta	60
attcttaact	gcaccaagta	aacttagcca	tttaagtatt	tttttaagtt	attccctcca	120
aaaaactgag	ggagcttttc	ttttccacca	ccacaccatg	gtttcccaat	agttctcttt	180
ttggaggact	tttcaattga	tgagtaaact	gctttagata	tttcagaact	tcattcccca	240
aatgaaagct	aatctggaca	aactatatat	tgcatagatt	tctctacaga	ttctttgctt	300
taaaacctaa	atgcaactaa	catagtgtaa	ttttaacct	tttgccccac	agtaaaaaact	360
atctgtcctg	aaaaatatga	tggatatatc	ctngattttt	ccagttaaca	gaattgggtc	420
acttcaaaga	taattattat	catatatcaa	aataccagct	taacatangg	acattcttca	480
gtcnttactg	actcataggc	atatgaacct	tggngcccag	ctttttaacc	tnttccacaa	540

tcttcctcct cctc 554

<210> 8630  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 8630  
gaaagtaaaa tttcagtttag tttatttttagt ccttacactt aaaaactgaa gctacagaca 60  
cacacataca cgcacacata cacatataca tatacgatac acacaaacaa aatagagcag 120  
ttccatgaaa tcagacatat acgggaatgt cttgattacc caacaaatcc tctccccttc 180  
cttccctcat caaatlgcta tgattgaagg cccaggaagc taccaactac ttagggcttt 240  
tagagtcata cacatgtttgc atcctgttaa cttgggtgtg gtgctgttgc tcacagtaag 300  
aaaaatggca atatccccag agacagcaaa gtattttgca tgtttatgtc tgtgagttaa 360  
ctgtcaccac atattgcctg ctgtcttcat caatgcagct catagtaccc aaaaatgtga 420  
aaaaatccta tccaaaacag atgngncttt ttacatacaa attgggtaga acgcanagcc 480  
tgatgatgaa agggtcattt tttactggna ggnntaaaaa atttaaattt tgaaaatcag 540  
gttnggn 547

<210> 8631  
<211> 415  
<212> DNA  
<213> Homo sapiens

<400> 8631  
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gtaagttag agcaagctac caatgggaga aaggctcagt gaagtctact ttttattatg 120  
ttttccttat atgggtgtcag ctaataagta tttggggaat aaatgtgtag atagtggctc 180  
gtttaaaaga agttacatta tttggcattt attacattt atttttctta attgattaat 240  
tgcagttaaa ttaccttagc atgcaagagc agattttaca gattttgacg tatgattaag 300  
cagcataaag cataactaat gnggttttag tggcatgcta tgtattaagg cntgaaattt 360  
aaatcccccc ttcacaaaga ttttttgcag ttccggggaa tttnaangat cnnat 415

<210> 8632  
<211> 514  
<212> DNA  
<213> Homo sapiens

<400> 8632  
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aatttttttt tacaatgttt cttaccttga tcttaattta agtaacncta ggaagacctc 120  
aatatctttt attttctttt ttaattttaa aaaaagtttt ttttccccag atncaaagat 180  
ttttgccctt gcataaaaaa acagtgcccg aacgatgacn caaggactca caaagactca 240  
cgggacctca ctgacnctat gattcctact ctaccatgca aggtcttggc tacccttaat 300  
tggaactgtca gcctgaaaaa cagcttttct attccttatt ttagtttttg ttaccaagaa 360  
agtaaaatga acagtataat aaaactttcc ttaaagaaaa aangaacaaa nccnaaaatt 420  
aangaaagag aaaagaaacg tctncattca attcacacac cctngggccc ggtgctggtt 480  
tactcaaaaa cttcccttct tataaattna gaaa 514

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<210> 8633  
<211> 527  
<212> DNA  
<213> Homo sapiens

<400> 8633  
acatttttct ttttttttat ggcatagttc tagaattgaa agtgaaaaat tctgttttcag 60  
catgtttctct gcacctccaa attttcttgg ctattaccag tagttcctta tacgcaaaca 120  
tatgagaaat ctctgaagag caaattcagt ttcgaaaaac agctaataat atcgaagaaa 180  
agtaggcact ggtggatact ttctagaaga cagtattaat acagcaatac ttttaggaata 240  
atgatgaatc tgtttaaagg caaaacatca ctaacctaat cagatcactt agagaaataa 300  
gtgattttct ctgtcttata ctgagatcat atagccattt aacctatctt caaacagaca 360  
naaattttta aacactttct atcctttaag aaaatcttct ttgcttggct aaatgacaat 420  
gttcangaaa tgcctgccac agaagcctan aaaatccttg gcaaccattt cagaagaaan 480  
ttaccctctgc ataaatgggt ttccagcaac cgcttcaata agctttt 527

<210> 8634  
<211> 519  
<212> DNA  
<213> Homo sapiens

<400> 8634  
atcaaacaca aattttatata aagattaact ttttcaacca gcttacaagc agacttttcc 60  
ctttctttgt taaaaaatga atggtatgaa actatatgtt aaagatgttt ctataataacc 120  
ttacatttac atagcgcttt acaattttca aagtgtttc acatgccatc tcatttaatac 180  
ctcacaacag ccctgtgagg taggtacagc aggtattatt atcctcattt caagatgagg 240  
aaattgaggc aaagagagggt taagtgactt gcccaagatc acacagctgt aagtgtctaga 300  
gctaggacct gaaatcaagt tttttgactc cttgtccagt actcattcca ctgtaattac 360  
tgcctcaagt tatgaataat gaactgtgta tcaaaattga aagcttactg aagttcattt 420  
cagtgatgtc ttaacagtaa agttaaatga gaaatncaga acagtaggct gatggtttac 480  
ttgacataaa atggtgcaaa ncactttggc taatacttg 519

<210> 8635  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 8635  
gaaaccaatg cattctttat tgcagactga agcttagggg ctcacccact gtgagctctg 60  
atttgggggc atctgtggct gccacactt tccaagacag acaagggcaa actctccaag 120  
cagaggagaa aacaacttcc agaagctgcc cttcaaagg cctgagggtga ggacctgggg 180  
cagcaggcag cttggcatgc aggggttaac cagaaaggcc gggctctggag ggctgggcac 240  
acctaaccct catctccttg tgactgcagg tcccactccc ttcttcagga gtgccatgca 300  
gactctggaa caatctaaca ggccaagtgt ctcccagggt gggttaggga ggaggctnaa 360  
cacaggctca gatccctgga agtggcaggg agagaactga gagaaacttc accctctgct 420  
cggaggacat tccaagcct aggtccttgc ttcttaact ctaaagtgt tataggaatc 480  
aacttggggg tctttgctaa aatgcagggt 510

<210> 8636  
<211> 424  
<212> DNA  
<213> Homo sapiens

<400> 8636  
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tccagaatga aggcaggtaa tgcaaatgag gattaagtat aattaaaaaa aacagcattc 120  
atccttaata aatggcatgt accactttgt ctcagcaggg atgcagtagg taaagggtgga 180  
gactgtggtg agctagagga cgtaccccct gtcttagggg ccagtcattg ccaaatagaa 240  
gtgtgggac agtggttaaca gatcttctgg tttttagaga gaaactatag atattttcat 300  
tttgacactt tctaattatt aaatgttcac aatgaatttt ttaagtgcct aaacactata 360  
cagacaaaac catttgnatc tatggncaac ttngccttgg gggnttctaa ttngngactt 420  
ntaa 424

<210> 8637  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 8637  
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aataaaaata tacattaacc acagaagtac ttactctaac tggaaagaaa atgaacatgg 120  
ctattttcaa aacagtaata aacacaaaag gtcaacatac ataaatcatg acaagtgtac 180  
atctcatttt tgacaaaaat aagttccatt tttacattaa tgcttcatca tcaggctcca 240  
tattacatcc tctgacctta tttacattta ctatcaaatt tctattagca tgtgtcactc 300  
aaaggcactc aattcagagg gtaaaaagtc ctgagcttaa gtaggaaaca aagttcccaa 360  
ctaaaatttg aacataaata attctaaaga tcagagaata ttaaaatgtt taaaactata 420  
atatctggtc cataaataat tcaaaaccta ataataaagg tgtcangact ggtcaaagaa 480  
aagancctgt taggcagaaa aattcctngg aatnaacc 518

<210> 8638  
<211> 524  
<212> DNA  
<213> Homo sapiens

<400> 8638  
aaataggaag attttaataa cagtcagtcc ctatagtccc cttgtctaga acaattaaat 60  
tattatccct cagacagtac aagacttgtc agtagactgt ggggaagttg atgagttgac 120  
accagggcta gtggcatttg ttttggggaa gacagtgggc ttgggccgtg tggctggtgg 180  
tttgaccggg gcagccatct tgacagactt gacaggccgg aaggcgcagg cgatgtcccc 240  
agcagtactg gcgctgcgct ggaaggcggg ctggggtcc ttgaggagct ggggtgtgcag 300  
agggtctggag ggctctgacg tgggggccac cactggggag gttttgaggg gctccaaggt 360  
gtccagaacc acgtcagggg tgtgtttgac actgctctgc cgttctaagt tcccgtagct 420  
cattcanggc cgagttcatt gntgcctcaa tatcctgagc aatgacctca nggtccatgg 480  
gnccatgggt antggaactt tttgacctn ccgttgggga anct 524

<210> 8639  
<211> 524  
<212> DNA  
<213> Homo sapiens

<400> 8639  
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ttgaacactt accaagtga taattttatt aaggctcctga aggtgagtgt cgggaggtgc 120  
tgggtaaaac acatcacagg taagaaatgg gaaacctacc tcagcatttc tgaaaggcac 180  
aatctatgga agggaaacct agcgtataa aacctcact ggatgtacat ggaaaggagt 240  
atggtgagct atttcctttt taaaggatga gaccttcata aattggcccc tcggattctg 300  
gtgattcccg ccgcaagcgc aaatgctcca gtgtgttatg aaaatggttt ggtaatctgc 360  
tctgggttct cactgggatt caaagattcn ggaggctctc tcgaatcttt tggataagct 420  
ggtttaaaaa cctgaattgg taccgcgcatc attttccttt cataaaaaata gatataatctg 480  
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<210> 8640  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 8640  
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tacagatgtg gagagaagag acaccggagg atggtaactt gctggcttcg aaacaccatg 120  
taacatctta aaaaaaaaaa aaatcccaaa gcaaatcaga aaacggaatt ccagggtcct 180  
gagcccatgg ttggggccag tggggtggaa gggctcgggt ntgaggggaga gggaagctaa 240  
gtgtctcagg actcagctca aacgtgtaga aaattaaaaa tnaaaaccaa taaaatgcag 300  
cttctctttt attaggaaac atttaaaaaa aaaaaaccca aaacacgaac agccngcat 360  
ntcagtaacc aagattattg cttttgggtt ctcanggctg atagggtaaa caccttacac 420  
aggccattna ctnttcaagg gtgggggttt ccggtngggg ccatgcttgg gnaaaaagct 480  
caggcctggg ncctaaaact gggggaaagg gccccccnaa ggggg 525

<210> 8641  
<211> 524  
<212> DNA  
<213> Homo sapiens

<400> 8641  
ggttttgaaa acacacacct tagtgtactg aaagaaaaac aatttctttt aatttggttt 60  
gttgggtcca caccatct atcaatgtat gtgctattta caaataagtt ctatacagta 120  
tttttgagcgt accttgata attcctagac ctctattttc attctgtgta ttaatgtgaa 180  
taacagatgg atattttaat atttaggcag atggtaaact ttcttatagg tcttgtgaga 240  
cttcgtctta taggctgaac accattcaca aaatgtaata atgcttcatt ccttcagggt 300  
gaggtaaaga acttgagcaa ctggattagc aaagctgcaa agaatagaat gtggcctaag 360  
atgtaattat gttctctgcc ctccctttgg gccagggtag ttttgcaact gacacaatgg 420  
aaaataggcc attagcctg gaaattaaat ggtcttaacc ccaatcttac aggacnttaa 480  
taggcctttca cttggcntnt ttaagggnnt tcaacaaaac ctaa 524

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<210> 8642  
<211> 478  
<212> DNA  
<213> Homo sapiens

<400> 8642  
ggaaacatcc tagtaaaaat ttattcagac aagaatcgtc aaaggatgct aaacctagga 60  
ggggtagatt tgatgaggaa cagaattgtc aacaaggctc caaagtttct cctcacaaat 120  
taccactaa ttgcaaaagg aaaaacaata acgatacact ggagaaactg gacatcttac 180  
ccaagtgatc aaaattagca tcaccaataa gggacaaatg gacattctgt gcatctggat 240  
gtatacctgc aatacatatc acttacagca tttcaaccct cactgcacta ccccaatcta 300  
accatgagga aacatcagaa aaacccaaat agaaggatac tctatccttt agctgncctg 360  
natttttcaa atatattact attataaaaa acnaagaaaa gctgaggaac tgnntcagaa 420  
tanaagggtta ttgncattcc acntttggac cctagnttgg accgnggact tgaaaaaa 478

<210> 8643  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 8643  
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agggtagacc anagggtcct tgcccttggg acacccccctg aaaacaaaac ctgacaaaac 120  
tcaatgngca ttaattagng canaaacaaa gacagattca gcaagngcaa agngnactac 180  
aattttccct tgctcttggg aagccagctc cctggctcgcc agtggcaggg tgggtgcaggc 240  
tgcttgccctg acctgccagn tttgggcgcc acaggccact gggcaaggcc agntcctnta 300  
gctggaatct cgtttcttct ggttccgcat cagggggctg tgggtggcgca ggccctccat 360  
gctgtgccgc cagtgccagc agcttcggca aaaagntttt gaaagcaaac ctgatctnga 420  
cagaanaaag gccnggcttg anaactggnn atttgacct 459

<210> 8644  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 8644  
gtcatttagt tattctttta tcattattac tttaaaatac actaatacat tcttatctac 60  
ttccctccac cgacaaatat tttgctaaat taaaaggatc actggaagta ttatgacccc 120  
cctcgtcaca ggtggtcaga accaccacag ttttgtgaat gaatcagaga aggcaacatt 180  
tcatcaacga aaactcattt aggtttcaaa aggcaggatg tagtacagaa tgcattattc 240  
tgactgtctt ctggaataga aaaattggaa aggatgaaag aaggaagtta gctccagctc 300  
cactgttacc ttggcaaccg tggcccaatc acagggggcag aaattaattt tgtgcccgtg 360  
acataacgtg gcagaggagt ggggagccgt ggagtgggga gagaatgacg gctgggttta 420  
aatgctcaga angctagtgg ggaagggtcc aggtcaaccc gctgggtggg naatctaccg 480  
tnccaattan ccactgggccc tttttcactg gaaggttnnga ttatggagag acnn 534

<210> 8645  
<211> 531



<213> Homo sapiens

aatacatctc	aagtcagigt	taattttatt	actgaaaact	gagtaaatta	taaagtgcct	60
tttctcaaga	aaactacaaa	cagttttaga	aatatatata	ggatatttca	gggttagaag	120
tcaaatttgt	gtgttagggg	acaagcttaa	gaactctgga	tgttgctgct	ctaacaatgc	180
atttgtgatg	gtgccatgtg	atactaagaa	gtcagtagaa	tcccaccagt	cctactgcct	240
cagatgagtc	ttgtttcagt	catgggttta	caaagtcatt	gagtgcctga	ggacttgttt	300
tcctggaagt	gattccctac	ttgggtatgg	caagaacaca	tcagtagtgt	aaaactgtca	360
tctgtagtag	cactccatga	tcatttcctg	gatgaccact	ttaaattata	actcacagat	420
atgtggggat	tctaagaatg	gtatatgtgg	ngaatagaac	ctggatccaa	acataccagt	480
tctgactcaa	cacaatctct	agttctccat	tttanggatt	aatcatatct	a	531

**<211> 524**

◁213▷ Homo sapiens

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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**<211> 532**

## ◁213▷ Homo sapiens

gccaatataa	gaatcttatt	tactgcttta	gtcaagaagg	agatgttatt	tcacttgtga	60
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tacaatctgt	aaccacctaa	tgtagctcag	tgtatggtgg	atactagata	taaacaagag	180
tagggaagtc	tttggcacct	gcatgatgcg	tgccggcttt	taaattcaga	aagatgagaa	240
gctacaatgc	aacttttttt	ttaatctaca	gataccgccca	aaagaagaaa	tgtttatcag	300
attttgaatg	catactggaa	agttggccgg	tggcagcttt	tcacattaaa	tttcatcaca	360
agtgaaactt	gattacagcc	caaactagac	aaggcaattc	aagtgcccn	accctgaagt	420
ncacgtgaga	ctacaggaga	acctgcatta	tgggtgcttg	ccagccagtc	tctttgaggn	480
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**<211> 547**

<212> DNA

<213> Homo sapiens

<400> 8648

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atttggaat	aacctcatgt	tccacttggc	agtgcctggc	tttgtgcacc	cacatggttt	180
tggcctgggt	cccagtgaat	atggtcctca	cctggctggg	gaacatgggt	ctgagaggcc	240
ccttgatctg	ccctggggac	atgtgtggcc	atgctaaggg	ccctgcccac	cttcacgtga	300
ctggccacct	ctgccagggt	gcaggcagct	cctagcatgg	agacatcctt	catggaagtg	360
agctttccca	cccacctnca	taccacacatt	tctcagaaac	agagttaaca	gggaaccaag	420
agtcaagaag	ccacagggt	ggtaacgtgc	ctacaggcca	aantgngacc	cttacctgaa	480
nagccnggcc	accaaaggta	tcaggaangg	aaaaaatttg	gcctggaatg	agataggaca	540
agaaaaa						547

<210> 8649

<211> 520

<212> DNA

<213> Homo sapiens

<400> 8649

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tgaaggagct	gagccaaatc	tgccacacatt	atggggaaag	ggaggttcaa	tcaacattag	180
caaatactca	tgcaattgat	gaaatataaaa	atggtatcag	tggtttgggt	aatgtcctgt	240
gggtaggggt	aatcaatcta	ctcttaaaaa	acatacattt	tcccaatcat	gcttttaaac	300
ggcatntttt	aaaaaaacaa	gttatatata	cagatatcac	cccaaatga	atcttttaca	360
gtctactact	ataaatTTaa	ggcatcctga	tattctgntc	ttctgctggg	gaggcattgg	420
tttcatgggt	ctcttttcca	aaaggattgc	cnaaaanttc	cataattttc	caanggcttc	480
nngggaagaa	aattttaaan	gggncttcca	agaaaaagtt			520

<210> 8650

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8650

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aagattcaag	tatttttgtc	aaactttcta	atggtaaggg	gaatgataaa	aattgaacag	120
atataaaaaa	tattctttaa	caaataattaa	agcacatgga	aaattcagaa	ataaaaaacac	180
accaccatat	aaagaaatca	aaatatttca	tatgttttta	aatgcttatg	gtatgagagc	240
caaattgtct	atttccagggt	taataaacia	tatataagct	caccttttta	aaggatatcat	300
actttgtgtc	atatagaaat	aattttggaa	acagtatgtg	ttgggtgtgt	aaattgtcca	360
cattaagcaa	aacatatttt	acatatgaat	attttcattt	atacttactg	gaaaaacaaaa	420
cagaaaaact	tataatttta	acatcttgat	ttgaaaatat	tttgattttg	ataagtctgg	480
ttaatttcca	caatgnancn	gccaaagggg	tnttcaaaga	atggttattc	aaaatttttt	540
aaaaana						547

<210> 8651  
<211> 492  
<212> DNA  
<213> Homo sapiens

<400> 8651  
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aaaagatgaa gtaaatttgc aatgatttca tacaccaaga ttctctctac ccaaagctga 120  
agatatattt tcaaggaaaag gtgatggaaa gaaaaatggg gctcgcccaa gagattcttc 180  
catccagcag gcatatactt tgtctatcat gagtcaagcc ctgatccaaa ggcttggtta 240  
ctcataatta cactaagcat ctctcctatg ccaagtaatg tggcaagtat tgtgagggaa 300  
atacaaatgc cctaattgtaa aaagttcatt ccagtgtagg ctgaccttct caaaatgggg 360  
tctggtcaga ttctccatgc taggctacag gaaagaaggc tgaagaagca aatttacaaa 420  
tcagtttgcc taccattgng aattngagcc aatgacttgg cattncccg agtcettana 480  
ccntntnaat cg 492

<210> 8652  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 8652  
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attcagaatc aaacctaattg acaaagcaag atgaaataac caacagcatc atcattatca 120  
gaatagtaac taacattttat ataaaagatt actatgtgtc agaaactaag ggctttcatt 180  
tcattcaatt ctcataacaa cctataaagt aggtactatc attatatcca ttttacagat 240  
gagtgaatga aggctagaat ttgggtcacc ggccaacat gaccaacta ttagtagtag 300  
gtagagaagc gggctctccga acctaggtaa tctggctttg gaatctgngc tcataaccac 360  
tgngctataa tgtctctgat agcagctact aattaaaaaa taaaaaatgn atgntttcct 420  
aactttaatc ccncngata gggatattct tgggtcattt atggctnaaa ttttnaaaaa 480  
ccttttcctt ttaaccttta cctatccnca atttgggtca ctggttttat ggg 533

<210> 8653  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 8653  
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aaataaaaaat actgctgggg tggcccagat tctggtagtt gaagggttgg ggtagggctg 120  
acaattcctt ttgcccaagg gaggcccggtg tggcgggggc agccatttta agaaccctct 180  
gtgttttagct cttccggcta ctttgggatg gtgtgttgtg tcagagaccc caagtgcaga 240  
atctaggccc caggactaga aagaaaaagtc aaggccgggg agacatttag gctcagtcct 300  
gcagcccact cctccagttc ccacctctgg gcagggatag agccaagggg caggacaacc 360  
ctagatgtgg actccaccct ctcccagatt cttcacgatt ggatgctgtg gcagaaaaac 420  
gcangtgggg cttgnttcac ccaccctaac ttcttcttan ggagatgaca ttttccaaac 480  
ttccttgcan ccaaggttct ggaactgact taagttcccc caaccgaatc tnttggaaaa 540  
attanaattn gggaccg 557

<210> 8654  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8654  
cattctgatg gctcaatgtt tctgggatat aaactcatca ggcatgggaa ggattttcaa 60  
atTTTggcaa tacactcaag ttatggtata aaaataacat tttgttttct ctcttttttc 120  
tcatttttaga cctaagagtt ttttgttata agacacccca gttaagaaat attgaaacat 180  
aagagacttg accatcaagg gagaaaagaa gccaagagtg aaaaatgcta tgaaagtaac 240  
tccagacctg ggcggggcgg gaggtaggag gaataaggag aaaaggaggc ataagtggaa 300  
aggccagggg cctgtcatct cagcagctcc gagacttgct atgtttgaaa gtgcaaattgt 360  
caatggattt taacctctt gaggttgtga tcttttaaaa agctcaatga atgaggaagt 420  
caattccttc aaatgcaaaa tagctggctt tctggctgga nggttgntgg gtctggggna 480  
tttctttccc atctaccttc ttttccaccc caaccattt cccaagaaa ggtccaaang 540  
gtgccanttt tgnncatt 558

<210> 8655  
<211> 289  
<212> DNA  
<213> Homo sapiens

<400> 8655  
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tttagaagaa tgccctctcg gottatcatg cccaatgggg ctttttgttt ctggaccact 120  
tcccctttct ccacccccac ccccatctcc aaattactct taacatgttc acagatacca 180  
cgaatatttt gtaaacanga tttgggttac tggaacttga tttcattaac atcccacttc 240  
aaaatggaag gcaggnggng gacagggtta gaaatacnan anagaggac 289

<210> 8656  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 8656  
cgatagttaa aatatacttt attttttaat acaatagctg ccagcaatat actggtgctg 60  
atgtttccaaa gataaaagaa aatacatgca ttctataata agctttcatt tgccgtgttca 120  
agaaattata aagaaaatac taagctaatt aatgataggc tcaaaaaatg cagtataactt 180  
ataaaaagcc gctttcataa agccagtgtc tactaaatgt tagcatatca aagtgggaga 240  
aacactgcca ttttaaagca ataaacttaa aatttcaaga aacagcctat gagaaatagc 300  
acttcctata caaattaggt ataaaaaaat taccaaaaat gtattatagt cacaatcaca 360  
gtctttggag tagtacgtag aaagtctggt tttgcttttg tcttttaaaa aagagtaaatt 420  
acatagcaaa gttttatttt cagcaagtgc atcctcctgt tagaacacaa ataattcctg 480  
gtttagggct tcaattaaaa aaaaccccga aaaacaaacn aaaacctgca nagtgcatt 540  
cctcaacatg gctggtggga a 561

<210> 8657

<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 8657

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tgcn	cataat	gatct	taaaa	aaaa	atgaat	tac	caaaacc	aag	attntnt	tnt	aaaatga	180		
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gca	aa	ccat	tttc	gttttc	tac	agcataa	ata	acagctn	ta	aggca	acc	act	acctnag	300
cat	gaag	ctc	attt	ctccac	g	ttagagtag	tgnt	tacctg	ct	acagt	gac	cag	ngtttan	360
ag	acc	tttc	ccttt	cagta	g	caaaaagaga	cttt	acctaa	g	aaacac	act	ac	tactaca	420
ga	tc	cttgg	aaca	agaaac	ag	aaaagggag	ctg	naactaa	gg	ccctg	aaa	gcc	attat	480
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												ttnt		

<210> 8658  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 8658

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g	t	gatt	ctcc	tg	cct	cag	cc	tcat	gag	tag	ctgg	gatt	ac	agg	cgt	gcac	cac	ctc	gctc	180												
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c	agt	gg	ca	c	g	at	ct	cag	ctc	acc	ca	aat	ct	cc	ac	ct	ccca	g	gtt	ta	ag	ca	att	ct	cct	gc	300					
c	t	cag	c	ct	cc	ca	ag	tag	ctg	g	gatt	ac	agg	cat	g	cacc	ac	cac	ac	ct	gg	c	ta	at	tt	tt	gt	360				
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a	gg	t	gt	ct	g	ccc	ac	ct	ttg	c	ctn	cc	aa	ag	t	gt	tg	gg	g	aa	tt	ac	ag	gg	gt	ga	acc	acc	gt	480		
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t	ga	acc																											547			

<210> 8659  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 8659

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a	ac	gt	g	ct	tt	c	tt	gt	at	tt	gt	tt	g	at	a	at	ag	t	ct	t	caa	at	ag	gg	t	cc	at	ag	gg	c	120				
a	g	aa	ac	at	ca	a	agg	act	ct	a	acc	ac	g	ag	t	g	ac	ac	act	gt	c	t	ta	ag	t	gg	ct	gt	ct	gt	180				
a	t	gt	g	ct	gt	tt	t	gg	ct	t	gg	gg	g	a	ta	aa	g	ca	aaa	t	cc	ca	ta	ca	a	cc	aa	a	ca	ac	240				
c	cc	a	ca	a	att	t	cat	gt	t	gt	c	ag	ga	ag	ct	ta	c	tt	ta	aa	a	ga	a	ta	ag	ct	ta	a	ca	aa	act	ga	300		
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g	g	g	g	ct	gg	ac	tg	g	ac	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	tc	420		
a	a	ag	ca	a	aga	c	cag	gt	gg	ca	gc	ag	ca	cc	ct	t	gg	g	ct	tt	t	ca	a	a	ag	t	g	ca	ag	gg	aca	ac	g	ca	480
t	g	g	g	ac	cc	ng	a	at	g	gan	t	g	g	a	a	ag	gat	g	aat	g	ca	aga	c	ng	aa	ag	gt	t	n	cc	cc	ct	ct	a	540
a	a	act	cn																															547	

09629469.072300

<210> 8660  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8660  
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gcatcttcac caggtcatct gcoctgcacc tgtcccgtc gctgtgtcga ggggtccagg 480  
tgaaccacag ggcatggca cncgcttgc ccctggtgac agccttcatt catgnggggt 540  
ttcagtgcct gaan 554

<210> 8661  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8661  
ggatattaat cccatgggtgc aaggatttcc tgcaaagtag ctttaatgtg tttaaatcag 60  
cagcaagcat taggacatgc tattttggcc ccataagtta ggtgtgtagc actacacatt 120  
agacaccaag tcatcccaac caatatttat ccatatgaac agataaactg aacaaaaaca 180  
tagttctgat aaaacctgca ttcacaacct aatgtagttt aaagtaaatt ttttcacaat 240  
tgagggtgct tatttaggac tgttttgta ataataaaaa caggaattat atagaagata 300  
aaacaccatt ttttactgct atataatgtc ttgctatata aaacataccc tcaacaagtc 360  
aaaatattta aaaccagtgt ttcaaatacc aaaaatcaca gctatgttac tgttcagtaa 420  
ctccactcaa ataatgtta gtactgcatt cttgaaggaa aaaaactgca gccaaaggcaa 480  
gaactctgaa gttttgcact cagagtttaa aagacagacc ctactntgca actgaanact 540  
gcccttttgt ttna 554

<210> 8662  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 8662  
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gctgaggcta atatattcaa gagtataaac acttttctt tggattacct aaaaacaaac 120  
ttttaaaagta tcatatttca attgactaaa aatatagcca aatctgtcac aacacaacat 180  
aaagtaaatgg acaattatag aatatittaa attaacagta acaagccatc tacatcaaac 240  
cttatttcca actaaaacca aacaaaagca caacaatccc gtagtgtacc aagtgtgtat 300  
ttcaatttac tgtatgcaat ctaacaaaaa tttggtcata atttaccaga tatacataaa 360  
tgatttaagt agtaaaagaa aattcagctt caagagagta agttcatatc ttgaggaaaa 420

09629469.072600

gtaaaagtac attaagaatg taaagccaag tccagtttct atgcaataag tgaactgtag 480  
tctaataaag cagatttagg tgatttttag atatatatct tggctctttaa tatatatataa 540  
tatatagn 548

<210> 8663  
<211> 537  
<212> DNA  
<213> Homo sapiens

<400> 8663  
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tcctctccag cttcatttcc ttcatgctga atcaccaggg ggtcccacat ggctgtccca 180  
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cccacgacat tccatgatgg gcaccttgga ggctgtggca catgatgcat aacctttctg 420  
gcggcggatc acctctcgga ctacttgtcc caggcacgga ttctcttgnt ggcagtgtc 480  
gcccgttaaa ccggctggca caaggcagta agggctcccc tgggctgana ngnggc 537

<210> 8664  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8664  
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acatagaatt gatcaaaatc taaggacaat attatgtaag gacaatatta aaaatggata 180  
gaaaaagctt catttggtga ggttaatcta aaggatgcat aaccatgtca cgggtggacgg 240  
ataaaaaagg tgataacctt gtgcttttat tcaactaagg tacttactaa aaccttaggt 300  
tttatacagg tgtaagctc ccacctggaa agggacagtt ttctatatta cacctaaatt 360  
tactttaaat aactgaagcc caaggaaaca gttgtttaaa agaacttaac agtcagatag 420  
ctacataatt tagtaatta aaatcaacta agacaggtga taattggaat gtctcaaaac 480  
tatnccactg ggggaaaata cccctgtccc caatttgag gtggtnaagc cgacctcag 540  
gaggttgaac aatg 554

<210> 8665  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 8665  
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cacacagcaa ggagaggccc cagcaccggg cccaggccca cctgcccga cctgcagaag 120  
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gccagacac ctccacgctg ctgactgcac ttcccatcaa aagggactcc ctggggcana 240  
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catgctgcc	agtcaagg	ctggcgtg	aacaggcaca	tgtggaacac	cacatcccac	360
tgtccaaggt	ggagtccacc	cctcctcgga	gcactcagcc	caccagggtc	caagcagccc	420
tcgggagata	ccacgoggcc	gnccacgtnt	caacttggaa	aaaagacact	tcaaagaccc	480
caagcttaag	ttntcggggg	ctggctttct	tgggnccttt	gggctggctg	gttttcccgg	540
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<210> 8666

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8666

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taaacaaaca	aaaaactccg	ccataagaat	ttttttgcat	ttttttttta	aaaaacatcg	180
acacttacat	cgctacatct	ctaagctacc	tcagttctga	tttttaaaaa	gcacctgctt	240
ttcctttttt	tcattcttgc	tctaaatttt	cagcttttta	aaaatataaa	ttatatgaaa	300
atacaagttg	gaaaatagtc	aaacacaata	taacatcttt	ttcatcccta	tacttctcag	360
cttaaaaaaa	aagtattctt	aaaaaaaaaa	gttcaataac	tgaggcagta	ttcctgataa	420
ttttatttta	atatatatat	tttatatatg	tatatgtatc	atatatttat	ggttcccttg	480
aaacttcttt	ggatgtaggt	aagagttcaa	caaattttatt	tggaccccaa	caggagtaag	540
ccggatggcc	caagat					556

<210> 8667

<211> 552

<212> DNA

<213> Homo sapiens

<400> 8667

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gttaggcgtc	aaattagtag	tgacaatctt	ttttttaatc	ttgaaagtc	ctagttttta	180
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caggccaaaa	agactctgaa	gggaaccagg	agggtttggc	ccttgctgtg	gaaagatgct	300
actgaaagta	taagagaaca	ccctaatagca	cgcgtcaggc	acgaaaccgt	accatgcccc	360
gctaagacat	gggaccagag	aacacgtcaa	cgtcaggccg	ctccaggaaa	accatccaca	420
aagacaacag	aagctaacc	gaggtcgaca	ctgccatgaa	nagtgttggc	tgaaccgcc	480
agttaccagt	gctttactgg	acgcgaacat	ncctaaggac	ccgntgtgtc	tggttctaag	540
catcctgacc	cn					552

<210> 8668

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8668

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taagtttata	aggaagaaag	aacacgagag	agagaacaaa	tccattttta	tgaacaagcg	120



tgcgctagaa	gcagggactg	tcaaaggaga	cactgaacag	tgcagggagg	attcatttcc	180
ccaccatata	tctgggcaag	caagtgtgga	ggcagaagac	atacagtaat	gcaaaaaggca	240
tcattatcac	agaattttctc	catgtgtgaa	tgagaaagtc	tttccatgga	tataagtata	300
caataaatca	cagtaatcta	ataagcaaaa	ctgctaagaa	aaaggcaaat	ttaaaaagaa	360
ataaaagttc	aaaaaatttt	taaagcttaa	atatgtattt	aatgaatttt	taaaaaattt	420
attgngcttc	tcctgnttat	aaaaagtttg	gttcttgga	aggaaacaaa	ttggaattgt	480
acaggacttt	atcttgnaaa	tttaccatta	aaggctttat	cctaaggcan	ttccttcaaa	540
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<210> 8669

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8669

agaattccac	tcaatcttta	atcaagtagg	gagaagtccc	cacttaaaaa	aaaaaaatat	60
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ccccacaga	ggttttccaa	acctgttgta	gcttgactaa	aatgttcaga	atgtatgatt	180
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ggcagaaagg	cccattcttc	tgagtctcaa	acatgggtcca	agaaagcata	ttctgattgt	300
agcaactgac	cagtcaatcc	agagttccac	ttacaaaacc	cctgccctgt	tggctttttg	360
tttccatttc	cttccctgag	aaaagggcaa	tgtgtgggtcc	aagctggaga	gctcaaaggc	420
ttaagtcttt	cccctaaata	tatgatattc	cctcctcctg	ctccattgaa	ttggcacttg	480
atgagcagaa	gtcaagtgtg	agaaggctga	tctgnnggcag	tcattcncaa	gaganccctg	540
ggcttttttg	ggg					553

<210> 8670

<211> 527

<212> DNA

<213> Homo sapiens

<400> 8670

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ctactagaag	gtgtaaaagg	tgcccgtga	cactaccaag	tagcctctta	atagaaatgt	120
agaaaatata	caggacaggg	tggagatgag	ctcttgaatt	tagtaggggtg	aaagagttaa	180
ctgccaaccc	ggcactatca	ttgtacttgt	ttggagaaaa	tctgttttgt	tctgggtgatg	240
atggttttat	cttccctttt	agttgggtgg	gaagtaacag	aaaatttgtt	tccccaaaag	300
tttgacattt	tcttgttaat	acacgtttca	tttcagtacg	atgccaaactg	ttaagcctgc	360
aggaatcctc	ctgggtattt	ctgaattgtg	ctgtgtgcat	gtgtgtttga	aagctcaaac	420
agcttgtctt	cttacagcat	cgagttgttt	gctttattgt	tagacacaat	attagcagng	480
natcctttcc	gnattcccta	ccatngaacc	cnttnaganc	taaaatc		527

<210> 8671

<211> 504

<212> DNA

<213> Homo sapiens

<400> 8671

09529469.072800

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cagctgcaaa	ggaaggacaa	gccccagaa	agaaattcct	caagaacgga	aaagaggcgc	120
tccctagaag	catgcgggga	tgggagtact	gggaggagg	gctcggcggg	gtctccggct	180
gcacccgggg	cccagggtgg	tctgcccag	acggccgtgg	gcctggtaca	ggaatcttga	240
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agcgggggtg	gggagcccag	gaggacgggt	cagcatcgga	atcgcccagc	ctggagtcaa	360
aggcatcagg	agcctccagg	ttccacagga	aacttctaga	aacacatctc	actttctgga	420
aactttgagt	ccnactgttg	cangatggca	agggtggcgg	gtattttngg	cctactggnn	480
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<210> 8672

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8672

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catgctgaa	acaatcagaa	acaatcatga	gcgcctgccc	acatggggct	tacagtctgg	120
cagggcaaga	ctgtagacac	agaaataaat	atccgattat	aagctgtgat	tagaggcatg	180
atggaaaaga	gcaaggcttc	ctgagagaaa	cagggcgagc	acaggaaaac	ctctctgaga	240
cagtgcacatg	aacttgaaac	ttgaagggtg	aacaggagtg	ggcaagacaa	aaggggaaag	300
aaggaatgtt	ccaggcagag	agaaagagaa	aagaccagag	cacggtatag	agccgaggac	360
atctgaggaa	gaaagggccg	ccgggggttg	ggccctctgg	gtgactggga	gaggaaggcg	420
ccggaatgga	tccagattaa	atcggatgct	gtgtgccctg	tggaacatg	gggtggtcct	480
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<210> 8673

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8673

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actgcaagct	ctgcctccc	ggttcatgcc	attctcctgt	ctcagcctcc	cgagtagctg	120
ggactacagg	cgctgccac	cacgtctggc	taattttttg	tattttttta	gtagcgacag	180
ggtttcaccg	tgttagccag	atggctctga	tctcctagcc	ttgtgatcca	cccgctcgg	240
cctcccaaag	tgctgggatt	accgcgccc	gccgaaagt	ttttaaatct	ttgtatacat	300
gtatttttgt	gtaagaaagc	actcaatcct	aatgagtatg	ccccaacatg	acttggttgg	360
ttataaaata	taagtatgtt	taaatttaat	gtgaaaccct	taagtaacaa	catatataaa	420
cattaactca	aacagatgtc	aaagctttgc	aacactgagt	tacacaaaag	cctaantagg	480
tagacaagga	tgggnaggct	nanctgggaa	ggacacttga	gttcanggan	atcaanaac	539

<210> 8674

<211> 522

<212> DNA

<213> Homo sapiens

<400> 8674

gaatcttaaa	tcattcatttt	tattttaagg	ctaacttgc	atataactaat	taactgatga	60
tgctgatcag	atgatgtctg	aatttttgag	gctatatagt	aaggnggtta	gaagtgcagg	120
ttctggcctc	anactcittg	gttcanatat	cacctgtaca	agttatgtga	cattgggtcaa	180
gtcatgtaac	ctattttaaaa	cctagtttct	tcattctataa	ttggggataa	taacagtaac	240
tatgtcataa	agttgtatgt	acatganatt	gcctgtaaag	tgagcaacaa	tgccctgcaca	300
tgataaatta	taataattat	tacatgttaa	taattattat	cttcataatc	ttctaattggt	360
ctgaatcata	ttctcttata	ttttgaaaaa	cgataatgat	aacctatgta	aaacaaactc	420
agataaccag	aaaattcaat	taaccaaaaca	cagtcttaag	ctatacttca	atgatgactg	480
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<210> 8675

<211> 351

<212> DNA

<213> Homo sapiens

<400> 8675

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aaaacaagcc	agagaanact	gcccttcaaa	ccaaaatggt	aagaaaggca	gctatgaaca	120
tggggaanac	aagtgtgaac	atgaggaana	cagggatgaa	ggtgtgaaaa	cagatgtgag	180
gataagaaga	cagggtgtaa	ggtgagaaaag	aggccggnca	tggtggctca	cgcctgtaat	240
cccagcactg	tgggaggcca	aggcanatgg	ntcatntgan	gtcaagagtt	cgagaccagc	300
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<210> 8676

<211> 526

<212> DNA

<213> Homo sapiens

<400> 8676

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tgtaccaggt	actctaccta	ctacagacta	tttaacttac	ccaacaaaat	caaaagaggt	180
tgctgaccag	atttataggg	gacataactg	tttatattat	caaagtgttt	gcataaccaa	240
aagtacaata	ataaagatga	aaatgcctcc	tatttctttt	agaaaataat	acttaataag	300
cttgctgcat	ctttgatgtt	tttactacta	ctgcatgaca	atgaatatct	gatagaaaaa	360
agaaatgtat	acttgaatta	tgatagccca	tccatcacag	tttaattctaa	aaatgaaatt	420
tctacagaaa	caggaactat	tttgacaaaag	aaaaaaaaaa	tccctcatcc	aaacttcttt	480
gtantggtaa	aggctgcaaa	ttgcagcggt	tagaaacctc	cctttt		526

<210> 8677

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8677

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acttgcattt	cttttgtaat	gaagaaaata	atacagagga	aataacaaca	actaaacctt	120
tggcctggat	tatcatcggc	tggaaattca	tgttggatgc	aagtttttat	tgataacaag	180

ttatTTTTtG	gtttatatgc	aaaaaatgtt	cattgaatgc	ctcctatttg	gctggcactg	240
cctaggcact	ttcacaggta	tttcatccta	atcctcacaa	cagccctatg	aggtaatcat	300
tggTcccagT	ttacagaagc	cttgggtggg	agattattgc	ttgatatact	tctatttgcc	360
acacattttt	gttggcaaga	cgttcgtatc	ggctggtgat	tcactgggtca	agagctotca	420
ttggccagga	gttcctattt	gttgctgtaa	gattcaaata	atcaaaatac	tagaattttt	480
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<210> 8678

<211> 522

<212> DNA

<213> Homo sapiens

<400> 8678

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acaagtcttc	caaaatcaca	cgctgacatt	tgtgtctaac	aaaaacactt	gggatagggt	120
gtgtgtgttt	gtgtgtgtga	actgtgcaaa	gtacaaagga	tctcccagtc	ggctgagcct	180
gttttgaagt	gcccggcctg	gcatcacccc	atgaggatgc	caggagagca	cccgtggccg	240
ccatcctctc	tgcctccctc	tgggcagagg	cccctgggtg	cctgcagtcc	tgtcccctcg	300
gtgtccactg	acttcagcca	tggctgtgga	ctctaccatg	ctcctcaaag	gaaatctctg	360
tggcccccca	aggccactac	atggctaaga	tgtgtacatc	atggggccag	gatgaaacat	420
aagggttagt	ttcatcttaa	ccgccaaaca	tgtgtaccct	ttgaggcaag	atggcctgaa	480
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<210> 8679

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8679

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 8680

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8680

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tcttgaataa	aaatcattat	tttgagctcc	ataatttact	tgccactga	atgtctgaac	120
cagtgttctc	tttttgtgtt	tttctgtctt	attttatttt	acaaatggca	cataccatca	180

gagtaggcac	agtctgacac	tgcaactcatt	atgagagact	tattcagaaa	aaaagtgtaa	240
ggaataaaa	attagcagtc	aaatcctttg	gttcattctt	tcaaaaaaga	tcaaccgata	300
taattacaaa	tcattgataa	ttcatctttt	tggttaaaaa	caaattccacc	aggtagatta	360
ctgattaaaa	tgcaaacactg	ctttaaaaca	ccacattcct	attctcatca	cactgttcaa	420
agatgccatt	gtttacaact	gattggacat	gacacaggat	acagtaaggc	acaagtggac	480
ggtcaaataa	aaacaaatac	tttaggactt	ggttttctgc	ncaaatncta	aaatatg	537

<210> 8681

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8681

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acaaacacca	ttcataaacc	tgagtcacag	gtttcagatg	ggagctgggg	acgtgtataa	120
atagcctgtg	tatgttaaac	agtagaaaag	aaaagaagtt	tggggaataa	ggtcaaaaatc	180
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ataactccc	cccaaaagag	aatgccaaac	ggaaaattct	aaataagatg	atgtcctcac	300
gtcgacctaa	acagtacaaa	tgatgcagca	tcataaaaca	aagttataat	tatgttgtct	360
cacttctctg	ctgccggatg	cccacggtag	agagcagcca	ctccacagga	ttttctgagc	420
tctgagctgt	ctgggggttt	tgtaagaaca	tagctttgac	tagcattgac	caattgattg	480
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<210> 8682

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8682

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catccagaat	gtagtttgct	acagtgaaca	ccaatgtcag	gagcaggcat	caccgtgaga	120
cgccacgggg	gcaggtcagc	gggacgggga	caggagaggt	ggtcatcgaa	aggcagggtga	180
tgcatgtcgg	gtcatttagc	acctggtcac	gagatacggc	gagaccccc	ggtccaggga	240
aagggtctcc	cttaaaacca	cgtggagctc	tgctgtctct	gggcagtcct	acgtggacag	300
gcaatgctca	gaagggtggc	aaggggctgg	aggagagatac	caccgacggg	ctcaggggga	360
ggggcacgca	cacacacagg	cacgcacatg	cttgcccatg	aacaccccc	gggcacacac	420
acacccttgc	acactcccca	ccctccctcc	accccagaca	catcagcaca	agcgggtccan	480
gcttctggct	tnactccccg	ggaggcttnt	gtggccaggg	gttcccatgg	cggg	534

<210> 8683

<211> 504

<212> DNA

<213> Homo sapiens

<400> 8683

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gcagcgtctg	cttcccagg	tcaagcaatt	ctcctgtctc	agcctcctga	gtagctggga	120
ttacaggcac	atgccaccac	acctggctaa	tttttgtatt	tttagtanaa	tcgaggtttc	180

atcatgttgg	tcaggctgg	ctcaaactcc	tgacttcagg	ngatccgccc	gcctcggcct	240
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tatatattca	ttagctagaa	ttgcccgaatc	tgngtaggta	taaattactt	ggtataggga	360
gagagaaagc	ctatcttacc	tgtnngctttc	ttacttggng	gtaacatcca	gcagttagtc	420
tatttataaa	cataattact	ttttcacata	tgaaccataa	aatatttaac	tttctggtct	480
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<210> 8684

<211> 520

<212> DNA

<213> Homo sapiens

<400> 8684

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ctctttcttt	tcttgctttt	taagagacag	ggtctcactc	tgtccccag	gctggagtgc	180
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atggaattaa	aattaagtta	ttctttccac	attggctttg	tttccctcag	agtttgncat	480
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<210> 8685

<211> 526

<212> DNA

<213> Homo sapiens

<400> 8685

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tgattacatt	tgaccaaagt	tagcactaat	agccattgta	atcttctccg	ccaacaaaat	120
aagacaattt	agaaacattg	ttttacttgt	cttcacactt	tggaggtaga	aatcatgaaa	180
cattaatctc	atgattacca	taattatgct	ctcaaacagc	ccaagtgaaa	gaacaatcat	240
tctcacaaaa	tgggtgccata	atgggttaaag	cttaattgtct	tgctaattgat	caagatgtat	300
acacaacata	aaataaatag	aattgcttgt	tgtctgctga	agttcttggc	aatgctaagg	360
taagttatca	ttttactctt	tccagttctc	aatagccagc	cctcaaagag	caaggggtgg	420
taggacaaca	ggaatgagtg	gaaatggctt	ctctggcgga	tccctcctaa	ctgcagtcac	480
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<210> 8686

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8686

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anactgtcct	cctcgatgtt	agtgggcttg	atccagtcag	gtgaaggctt	gaagagaaaa	180

aaagaccgtc	ctcttcccag	aacaagagaa	tcctccaaca	gatacccttg	gactggacct	240
tgcaccatca	gctttcctgg	gtttccagcc	tcctgcctca	cactccagct	tttggacttg	300
ttagacttaa	taataacaac	acaagccaat	ccttttaagg	aagtttgtct	ggagaatctt	360
gacaaacaca	aacatctact	gagagtccct	gtccaagttt	tgctcacacc	ctagcaagag	420
gcttctggct	taccagttgg	gagtgtgagg	ttctttgctt	gtaagacctg	atccaccagc	480
ggtacaccag	cttntggccc	agggcaagaa	cang			514

<210> 8687

<211> 512

<212> DNA

<213> Homo sapiens

<400> 8687

agcagtgcaa	aaatTTTTatt	tctgnttccc	ctccccacca	ctttacaaga	tgtaaaatTTt	60
tacttaatcc	accgtattct	cttttttttaa	ttatctgtta	tcagtcatgt	caaatgtgag	120
gaaaaaaaca	ctaatacaatt	aaaaatatcc	gtccctcttc	cccactgcta	cagcaaatTTt	180
aggataaatc	tacagcattc	acttacttta	gctggttctg	atactgagga	atactTTTTt	240
atttgagaat	caacacctaa	agacttggct	aattgtacag	catttgaatc	atcactgata	300
agtgttccaa	gagccacaag	aagtctaaaa	gtggcttcta	ggtcttgnac	tacttccaag	360
attngngctaa	ttagtgcaca	acattgggct	ttcccttcaa	tgttatggtc	tttatgaaaa	420
caaacagaat	agttcagggc	caatgtagcc	agagcaatgn	gaatgntctt	attgctccct	480
gatttcagtt	ctattgcatg	ggacatcagt	ga			512

<210> 8688

<211> 480

<212> DNA

<213> Homo sapiens

<400> 8688

aacaggacac	ttaatttgct	aaactttatt	ttatacatat	acgtttacat	ttactagtca	60
tggtgtcaac	ttgttaacac	aacgaagccc	taatggaccc	gttttgaaat	tagaagctgg	120
acagttacag	gcttttggtct	cttcaagaat	ccaattcacc	cctgggtttc	gcttggcaca	180
caccccagga	gaacgtcgat	gcacacagct	gtgtagctgc	aaacggaaac	cactctcttt	240
tctctcgtat	ttttcagtca	gactcactca	ggattttgaa	atgaatcatc	acgagaaatt	300
tgttttaaaag	ttgaatcact	gagaacatct	aacaactgtt	cacattcttt	atcacaaaaa	360
ctgaagtcgg	aaaagacgcc	ctgaaaactt	gcaagggcta	atactctatg	atagaatatt	420
actactgttc	accatgntaa	nacatttact	tactaccata	cncctgaaca	gncncggnan	480

<210> 8689

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8689

cctcttttaa	aaactctatt	tggtgcgtgc	ccacggtgct	gcgtcccgtc	agacatacct	60
gtatagatct	ctctatTTt	atatatatat	atataaaagg	ttcttttagca	gttaaataga	120
ttccaatatg	aacgtctccc	aggacaaaagc	tgctgtctgc	ctctgggtca	cacgcatctg	180
tgcggtctggg	gtgtatgtgc	cgcgtcacag	cagtaccata	taaatacggt	gatttgaacg	240

cagtttccct	gtggnggtaa	aaacacattc	ctgacaagtg	acaagcagaa	gagtccggca	300
gctgcagcgc	ctcactcggc	tgggacctcg	tacttgaaga	tgacgctgaa	gagccggccg	360
ccagcccgc	cggccagcca	cgcgttcttg	atgacggcca	gcttggaggt	tttcgaacgc	420
aaggctngct	gggaanttgg	ggtganagga	acggggccatg	gccttnatga	ccnccaaatc	480
cggccaagnt	tccggacaat	gn				502

<210> 8690

<211> 468

<212> DNA

<213> Homo sapiens

<400> 8690

gatagccaaa	agcaatttat	tatagtttag	cctcaaaaaa	ataaaaataa	aaaaattatc	60
cagnggttat	gaggagtcta	ggaaaacctg	tcccagtaat	gccaaacttg	aggtgaaggg	120
ctgactgggg	cagctganaa	gtgggacctt	ctgtttggca	ggcttcctct	cccttgccctg	180
gtcatggttt	tctggtgaga	agagtgttcc	tggccttgct	ggaggttccc	atggccccga	240
actaacagt	tttttctgaa	atttcgacct	gcaccgtttg	agagagtaga	attccctcat	300
caagtccctc	acctcccact	gctcttcctt	cagcctctgg	cagcagtgca	gggcggcgagg	360
gtcgatgggg	tgagcttctg	tgttgaagat	gtacccccca	gccccagga	tgcactcccc	420
atagggggtg	atcaccngnt	cnaaggtgga	ccnnttggtg	nggannaa		468

<210> 8691

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8691

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atatcacatt	cacagaagtg	gaaataaaga	gcataaaata	tttttaaaac	aggaaagcaa	120
tgggatcact	ttcaagagcc	tcaaagaaaa	cctttaattt	acaatgctac	gctttcatga	180
ttaataggat	taatgtgtgg	tttttctttg	ataaaagtag	tcatgatttt	ttagtattac	240
atacattcat	tgcatatgac	agacactctg	ataaaaatgt	actgttctaa	ttacttaatt	300
gttttggtc	atttaacacc	ttgtttaaat	agctttaaga	catataagag	gcaaataatt	360
atatatactt	aaggataaaa	ttttcagata	tttatccaaa	cacacattta	cccattaaat	420
tagaacacca	actgcttaat	atgtaaaact	agtttgaaat	catgactctt	gattaaatac	480
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<210> 8692

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8692

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ttttgcttta	atcctaatat	gctaagaaaa	gttcattggc	acaaatatcc	agaggtattt	120
tacagtittca	tttacctttg	gtggcaaaaga	gtattttgct	aaccgtatgg	atacagtcag	180
atagttttcca	atgcacagct	ttatgctaaa	gagaattcaa	atgtgtctct	tttttttgct	240
aaaaaaggga	tgtaaaaagt	ccaatatgaa	acagaacgag	tgcaacacga	aatacaaaat	300



atgcctatca	tgtaggcttt	tgaacagtta	atagctctac	gtgttatcta	taaacatttt	360
ttactagtaa	catcactatt	gtataaatat	taaaaacaaa	aatgacatta	aaaaaatagc	420
atatgaactt	tacaaaaatg	gctactittna	gncttcctaa	ctaaaaatcg	aattcaaatn	480
cncaancaaa	tttncctacc	taatcaaacc	cnccaccgg	accggttttt		530

<210> 8693

<211> 498

<212> DNA

<213> Homo sapiens

<400> 8693

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actggttttg	tattttcaaaa	gttgaaggaa	gatattccagt	cattaaacag	tctacaaaaac	120
atatgccagt	aaattacata	aaagactatg	tacaatataa	aaagagctga	aaacagtctt	180
cactgtaaaa	ataattttaa	acaaactttt	caattttaaa	tatcatctat	agcacacaaa	240
catcatgcaa	atggaaaact	aaatatactg	cattcttttag	tgtagccaaa	taaattcaga	300
ttgagacatc	ttataagtag	ggaaatggcc	attcaatacg	atttttttct	ctggcagtaa	360
tggtcctagc	tgggtgtttt	atgcataaag	aacagctata	tttcaaacc	tttttattgt	420
aataaatact	aaagcaacag	aggaatactt	tattaattta	ggagtgatgt	tcaaaaaatgg	480
nctgaaaaat	aaangctn					498

<210> 8694

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8694

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ctacagtttg	tgacatttaa	atottatttag	aagataagca	ccaaacctat	taaaataaaa	120
aatagataaa	atgctgtggt	tttcccagca	gcaggatatt	gtgtacgtcc	tgtaggctgt	180
aaacttatgc	tcccttctcc	tgaacaatg	tttttgataa	acttgccctt	ctcccttgaa	240
acttttctcg	aaaacagact	tttgctttta	ctgtagtttc	ggaaaatgta	caaaagagca	300
aaactgcccc	tctcggcggg	acggccgcat	gttacagaaa	ggcttcgtct	ctgctgctga	360
tgccaccacg	agccctgccc	agcgctcacc	aggagggcgg	gctgcggccc	ccggggctct	420
ggggagggtc	tactcagag	ggtaaaaagc	tccacagaag	agtcacccca	gagcacctgt	480
cggagaccct	gcgtcccttc	cctnangggg	ctgnnaan			518

<210> 8695

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8695

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 8696  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 8696

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ggattctttc	atgagaattt	cactaagaaa	acaatagttt	tagtctcaat	cccttcatag	120
ttggaagcat	aatgttcctg	aaccctccac	tcccagatat	agacaaatat	ttcttcttcc	180
aaagcagtaa	agaggtctag	atgagctgct	ggccatttag	gggtgaggga	ggcatttgag	240
ggcactgggc	ctggtcaagg	agtaataggg	gtattcccag	gagctactaa	aggctggctg	300
ctgagctcct	gaacagggtt	gactgggtgg	gatccctcag	ggccgagacc	agggtggcgaa	360
cccgccgctg	ctgttgcagc	caatagagca	tctccacttt	gtcactcttc	atcttgtcca	420
ggtagggccg	ccccttgaaa	gaatcactgg	cttcgcccaa	agattaaactc	tatctcctta	480
ngangggaac	ccaagaagac	tcnnttaagt	tgaactttct	gnngaaaagg	ctttcg	536

<210> 8697  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 8697

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnn				507

<210> 8698  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<400> 8698

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ctatccccctt	ggtctttcag	gnggtccaaa	gccctccag	gatagcacag	tgcttaggct	120
ctgctggggc	agaggcaagg	gagacaatct	atctcccgag	cctgccctgg	cccagtcctt	180
tccctgcccc	taccacacc	tattgcacat	caaatcatgt	aaacatggct	atggggatgg	240
cccanaacag	cagtgaggca	gattgatgtg	taaacagatt	tgggatcagg	ggctagaccc	300

008270 69462660

agtcacccag	ccctacccca	tgctgaggcc	acagttaagt	atggaaaagc	aggaggtcct	360
gggtcccaaac	tctggctcan	attatgcaat	agtgcanatg	gctctgctcc	cctctgccac	420
ccaccctctc	agattccagg	tcctgaggtc	caagtagcct	tgggcttccc	tccaggccta	480
ggcagcagat	ggcagtgtcc	agttttttcc	ttc			513

<210> 8699

<211> 434

<212> DNA

<213> Homo sapiens

<400> 8699

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aaagctgatg	ggacagaaga	atcaatatta	gcttttgaga	tgggcaaaga	cataaaacat	120
tggcgttttc	tagtgtcatg	atttgtcaaa	ttagttttag	aaaatggtaa	atgtctgaca	180
gaaaaaaaaa	ttttaattaa	gggtgatgta	agtgtgtaaa	actgttaaaa	atgcttgaaa	240
acaaacattt	taatcccatg	acatattatt	tttattttgt	gaaaacagct	aaaaactgcc	300
tgtcagagaa	actattttaat	cctttaacat	aaagtctttt	aaggcacata	aacattttatg	360
aagaacagtt	gaaatatgct	cgctaggaag	aaggnnccatt	ttaactcata	tgagcmttca	420
gtcaagnгаа	nncn					434

<210> 8700

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8700

aaagtttatt	catgaatggg	ttaattttccc	tttaaagcta	gaaaataaag	atcattttacc	60
ttctgatctt	cgttttttcca	aatggtaata	agcattgatc	cttccctcta	ataaagggtga	120
aattttttaa	atctcagtga	ataggaatgt	gcaaagctct	aagaaaacta	ttacttgaat	180
gtctctaaag	tggtagaaga	tcacaagttg	ggaataccct	caaaaactat	attttttacc	240
tactgtttaa	acttgttttc	aaagtgggtg	aatctgaaag	atcacagttc	aaaagtaatt	300
cccataccaa	ataatatcaa	citttaggtga	acatctaagt	atttaagagt	attatttttc	360
ttggctgggt	gcggcagctc	acacctgtaa	tcccagcact	ttgggaggcc	gaggcaggcg	420
gattcaggag	tttgagccca	gcctgaccac	catgggtgaa	ccttgnctct	actaaaaata	480
caaaaattac	ccgggcttgt	tggctcacac	ctgtaatccc	agcttctcag	gcggctgacc	540
ntgagaatcc	tttgaaccca	ggaggcgga	ntgcatgagg	ggaa		584

<210> 8701

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8701

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cttaggcacc	agtccttacgt	atatgaagtc	actttttcat	tccattgtac	aaaactcata	120
ttttgagaaa	aatctaatag	ctaatagtct	ccaacaccat	atgatcataa	tccttttagct	180
taagtagaga	tctacttatt	aaatgaggca	ccatcaacct	aaggaaagat	aagctgtaag	240
agaatgaaga	cagaggtata	tcaagtaaca	agaacattct	tccttatcag	gataaaaatgt	300

ttatcagtat	tcaaataaaa	tatcttaaat	ggaaagagac	aggaaagaac	atggttaaat	360
cacagaaaat	gaagaaaggg	agaagctgat	catgatcttg	tgcaacatta	tgacagcact	420
aaggnattac	cgtatccaat	acaaggatac	ttaatagacc	naagaattta	aaatcccagg	480
gaactggaat	accagcccca	aagaagcccc	tctttgtggg	ggtcacaccc	caaanggcat	540
caccaatttg	gaaattttta	atttagagac	nncnggtttt	tnttgng		588

<210> 8702

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8702

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ggaactgggc	tagagacagg	agccaagatt	tattaccatt	tctaagtttt	atgagttcta	120
ttgttttcct	acctttatta	ccagcgtag	ctgtaatgag	gattctagaa	aaaagagctg	180
gaaaaaagaa	gcatccccta	actcccacaa	tgtagcactt	cagttctggc	ctcttttagga	240
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actacttgga	aaagttttta	agacctaaata	cttttgtgtg	tgtgtgggaa	ctaggccaca	360
aaagtgcctt	atgaaagagt	ttccttacga	tcatgtccgg	attcaaattt	caagtagttt	420
gcatgatctt	catgtaatat	ctgggacaca	ccttcataat	tgacaagcct	tttttttata	480
taataataag	aatggcctaaa	tggagtggag	gatatcattc	attccgcccc	atgaccttat	540
cttttcaggn	gggaaatcaa	tggcnaaagg	aatgggtctt	tccaggn		587

<210> 8703

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8703

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caggtacaaa	atccccacc	ttcagggtgt	gaggcatcac	tgtgtgtggt	caaagtccca	120
tctcctcccc	tttccctttc	cacgagtttt	caagatgtgg	cccagtcagt	gcattgctgc	180
cttctatgac	ctatgaacca	tgggcagcaa	gaggactggt	gaccggggga	catggtgagg	240
tccagtgtgc	caggaacatg	gtaagtgcc	acattgcggg	ggagggaaca	attcagagac	300
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agctgagctc	agaccaagtg	agcacctaag	aatcatttac	ccccaaagga	tgtttcaagt	420
gagatgcaat	gntctctaac	cattattctc	ttagaaatta	agggtggcgg	ggcnggaatc	480
aaacnnatgt	ttgaaatggc	tttattcctc	ctagtggcta	atgctggtct	tgggtttatt	540
tgcngaaata	aaccaaaatg	gnantaaacc	accntcan			578

<210> 8704

<211> 505

<212> DNA

<213> Homo sapiens

<400> 8704

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gccagtgat	gcacacctgt	gagccgaaac	agagccgaag	caggagcacc	tgtgtcccag	120

gagcagctgg	ttggagggag	ccagggccag	gccccacctc	ctctcgggac	caggagactg	180
gcagccgctg	tgttcacctg	ggcaggtgtg	cacccagtca	ccccactgg	attatgggtc	240
tggtagcatg	agaggggtgtg	tccacaccaa	gggcaggtga	agatgcgagg	tggggctgag	300
acctccttcc	cacaagagga	ggtggctgag	cctcccaggg	cctgaactct	cacagcaggg	360
ctcaccccca	agcctgtatg	cttagctctg	actctctttg	gacaataaaa	taaagtgcac	420
tactgaacaa	agagtaactc	aaaaccagaa	tcagacaaat	cgccangntt	ttccttagct	480
naangacnaa	ngaaacntga	atgat				505

<210> 8705

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8705

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gcctggacat	ttgcccacca	cgggtggagg	gcctctcttg	gcatcaacca	tccacgacct	180
cctacggcac	catctctcct	gccaagttgc	ccatgggggt	ctccaggaag	aaaaccagcc	240
ttgggggatt	ccaaggccca	gggaggggtg	gaagctgccc	acgccctcag	gctgtgccc	300
gtctcatgct	caccatttct	ttctatggcc	aaagggaagt	cgctggacga	gggaggtccc	360
tctgctggga	tgagcagcac	agcacggctg	gggccccagg	tcacagaaat	gggtgcaggg	420
atcctggggac	ctgggctgga	tgggcacccg	ctttgggatt	tcctctggtt	aacctgtgta	480
tgggtccaagg	aacantgtag	gaangggctt	ggcattgggt	ggggcttgca	tgtccgggct	540
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<210> 8706

<211> 529

<212> DNA

<213> Homo sapiens

<400> 8706

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ttcccaggcc	cccgccacc	ctgacctttg	gccagaagc	tactgcttca	gtgtgtgggg	120
tggaggagtg	agactgggtc	cacagtgaac	ttattgctga	cctcttctgt	gtgaggaaaa	180
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ggagggggaa	ataactgtac	agccctttta	gccccagct	ctggagtggc	agacagcaat	300
gaggccacat	ccctggagct	gcccggggga	agtgggtgag	gaaccaaagc	cgtgggtccct	360
gtagagcaac	tgtggggagg	ggagggccag	tcccctgctc	agtcctgacc	acataagcct	420
tggtcacagg	tgtaggtgga	nagggcactg	gcggacactg	ncctaagggtg	catcctgagg	480
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<210> 8707

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8707

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atgttaa	atg	ctcattatgc	tgagt	gacaa	ttctaagagc	aaagacatgt	agttatctaa	120
at	tttatggg	tcctcaatta	ctgcagatag	acagtacagt	aagagacagt	acagtaagaa	180	
ata	aaaaaggc	tgaaaggaat	gttttggaca	ttataggagg	cctaactttg	ggtggtgtag	240	
ata	cagatca	aaatgaattc	tcaaaccaga	gatgggcttt	gtggaatggg	cctaaagtag	300	
tgaca	aggta	gtcacagact	tctggaggag	ggtacttggg	ctggtgtcta	cctggcatat	360	
ttagga	acat	tccataacga	gatgtaatat	cagcacaatt	gattatttag	cccaaggctc	420	
cagtcagt	tg	atggctacaa	gtgttaagta	ccacaagccc	cacctctatc	tctgtatggt	480	
tagagt	gcaa	atattttccc	catgcttctc	gtcccctant	cactgccacc	ccccttcggc	540	
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<210> 8708

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8708

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gggtccttgtt	ttgatccaaa	cattgatgtt	ttaaagggtg	tacacaatat	ttgttaaaaa	120
gaacatataa	aaataccttt	ttagaagcct	ctataagaaa	gaaaatacaa	agtttaaccc	180
cacaactttc	ctcttttgcta	gaactgtaaa	ctactgctac	agtttttaaat	agactttttg	240
ttgttttaaac	tatacatcca	ggaaaaatcta	aaaaaattaa	agaaacgtgc	atataaacga	300
ttgcatagca	gaacatgaac	attaactgca	aacagttaaag	aaatgaaagt	tagaaataact	360
atcaaataata	caaaggttct	agaatcaatc	ctttaaacac	attccacaaa	cagtatttaa	420
aatccatcgt	tgtattcttt	acaggcaaag	cctagattac	taaaaccgaa	attgaaaaaa	480
gtaatcctct	aaaagggaat	cgtttgccat	aattcttact	tgnatctgta	agcagcaatc	540
tgagatttta	aaaganctac	tttttattct	gaaangaaat	ggac		584

<210> 8709

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8709

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gcaacctctg	cctcccagggt	tcaagcgatt	ctcctgcctc	agcctcccaa	gcagctggga	120
ttacaggcgc	ccgccaccac	gcctgggctaa	ttttgtattt	ttagtagaga	tgggggtttct	180
ccatgtttggt	caggctgggc	ttgaactccc	aacctcaggt	gatcctcctg	cttcagcctc	240
ccaaagtgtc	gggattacaa	gcgtgggcca	ccacgccaag	cggtgaatgc	ccatttagtt	300
gtattcataa	ttcccgtgcc	atgtgttcga	attgaattag	caatatgccg	aatattaata	360
gtattcaaat	gcttggttatt	gcttggttcgt	tcaataaaaa	tctgattggt	gagattatag	420
aggtatcggg	acacaaatat	atgaatgttt	ctcataattt	ctaaaacatc	aaggccctgt	480
tccaaagtct	gactgggaag	atgtgcctct	gcataaccag	ccataacgct	gagcagctta	540
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<210> 8710

<211> 557

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 8710

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gagaagaagc	aaaaaagtta	tcagtttaca	aacaaggata	acaggtgatt	tcaacaaaag	180
ataagaaact	tttttttcca	agaatcaaaa	tttcaagtat	tattccanat	gacatggcaa	240
agctagcaca	ggcggaagcc	aaggngcccc	tcaggctctg	tagggctctg	gaggaagggc	300
ccgggcagca	tgaggggagcg	gcgcgtcctg	ggacctgcct	ccagccctgg	gcttggggcc	360
gtggtcactc	acacaaggga	gcagcacgtc	ctgggacctg	cgtccagccc	caggctcggg	420
gcccgcggtc	actcacacaa	gggagcacat	gtcctgggac	ctgcgtccag	ccccagcttn	480
gggccggggc	acttaccggt	aacaaggacg	ataacttggg	ggccccctga	gggtacaagt	540
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<210> 8711

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8711

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tccatgatgg	tgatcatcct	ttcaacagtg	accaggacct	tcttgccac	tagattaaag	120
atgtcttcag	gaggatagcc	tttgggctca	cccaccttca	cggtagcat	gtccattgtt	180
agaatgggtg	cttccggaat	tttactttg	gccaccacag	acttgccag	cttctcattg	240
caggccatct	cacagggcag	cagctgcttg	gttggggagc	ccagggcacg	ctccacaaga	300
cgactgacc	gcaccagctc	ggccagttct	ccaggctcca	gcgaggccga	gtggtcactc	360
cccttcagg	tcttgtccaa	agttatgtga	cgttccaaca	ccttggtccc	cagagccact	420
gcgccacag	atatcgctat	gcctgtttca	tgcccagaat	accctatggg	aatgtcagga	480
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<210> 8712

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8712

agggtctgcg	aagtttttaa	tgttcaaggg	gctgtccgtt	ttgaaagggtg	aaaaggaatt	60
aacatattta	ggtccactca	tagggaggag	gaaaaagaaa	ttctggcata	gcacaggggt	120
caggaaacta	tgccccacca	cctgtcgttg	tcagtagttt	ccctggagcc	cagccatgca	180
aatggttgac	atgctgccga	tggccgctct	gcagaatcgc	tgggactaag	accacaggtc	240
cagaaagctt	caaatggtta	ctatcgggcc	ctccacagaa	gtctgcccac	tctccataca	300
gcatatgatg	aaatacactg	cattatactg	aatattgaaa	aaaaatatac	tgcagctact	360
gaaaaataaa	cacaaagtgt	atatacaaac	agggaagat	gttcaagaaa	tcatgaagaa	420
agttttat	taaactctgc	ctggcttctg	agggccacaa	ggtcccgtca	attnggttcc	480
tanggttcca	tggagaaagg	aattgaagtc	tttggnaaaa	ttganccttg	ggangggtaa	540
cnaggacttt	gggcacantg	gttaacgggg	tcccaccggg	n		581

<210> 8713

<211> 440

<212> DNA

<213> Homo sapiens

<400> 8713

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acaaaaccag	caagttttta	ttagggattt	taaaagggga	ggggtgtatg	aacagggagt	120
aggtcacaaa	gatcacatgc	ttcaaagggc	anaaggcaga	gcaaagatga	catgcttctg	180
aagaaacagg	accagagcaa	aatcagaaac	tcctgataag	ggtctatggt	cagcgggtgca	240
tgtattgnct	tgataaacat	cttaacagaa	aacaggggtc	agagcaaaga	accggcctga	300
cctcaaattt	accaggactg	gggtttccca	atcctagtaa	gcctgagggt	actgcaggag	360
accagggcgt	atctcagtc	ttatctnaac	cacatnggac	agacactncc	anagnggncg	420
tttatanacc	tccccagga					440

<210> 8714

<211> 440

<212> DNA

<213> Homo sapiens

<400> 8714

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anatttgctg	caacatgctc	tggtcatat	tattgaatna	aaaaatttaa	cacatttcaa	120
aatatcaaaa	aatacactat	aatgagtctt	aagactacaa	tacgacaatg	attgcacaaa	180
accgtaagat	atgagccac	tgtctggatg	acatccattg	gcaacagtga	gagaaaaccc	240
tatagcatct	gggagaagt	catgaaattt	agaatncaag	gaacttatgt	gtgactgact	300
gatcaccaaa	tgaggcaaac	agagcaggat	tgactgtagc	tgctttttct	caatctagga	360
agngcttacc	ccaactatgg	ggcaaangtc	actaactgga	aanattaact	tgccttnatg	420
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<210> 8715

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8715

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actgagatga	atgaggggaa	aaaagtcaaa	actcctttca	aaactatatt	caaagcatca	120
gaaaaaattt	ttttttcttt	ttacaaagtt	atgtataagt	catagggacc	accaaatact	180
gaaatatgaa	gactctatga	ccaaagttca	aaactgattt	taaggaactg	tgtgaagcaa	240
gacaggaaaa	tttgtattta	acactctata	gaacttcaca	gtaaagctgg	aatttagaga	300
ctaattggctt	aacaggagta	ctgccaacaa	ggcctttcct	ttctcagaat	catctcctaa	360
tattcgtata	ccattgacaa	gttgtaacag	cagacttaga	ctttgngttt	tcttaagatg	420
gggcttaata	aggtgcacaa	atatgctgat	atcctgnatt	atgagcatgt	aaattattct	480
caggggttaa	gaaaatcccg	aaaagaatgt	aagtntctca	gtccacggct	tgcntcatca	540
acaaaaggnc	aggn					554

<210> 8716

<211> 582

<212> DNA

0092240.69462960



<213> Homo sapiens

<400> 8716

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ctcagtcctt	gagctccggg	acgccaact	gggagtgggg	cctccactct	cctacgtaca	120
gacaccccca	tagggaaacg	ctcacatgct	gtcctgctgg	gacgctgcag	gcctggccgt	180
tctgtggccg	catccgcgtc	cgggtccctg	tgtcctggct	gggagagccg	gggagggggc	240
tgattcctgg	gagcggttca	gcagcgagtt	ctgaatgtct	tccaggactt	cacggaagag	300
ctcctctcgg	gacttcatgc	cgtccaggta	gaccacttcc	acaccgttgg	cctccatctc	360
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gactgtgtag	ttgcgggtac	ttctcctcca	cttgcaactc	tcatacggga	cggtcaggaa	480
gtaccggcgg	ctgtacaagt	ccaccagggg	cttgtaactg	tagagcagga	agccttncan	540
gaagaagatt	tnggtgtccg	aggccttggc	tgacctgacc	cc		582

<210> 8717

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8717

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ttataaatgn	gtaagacaga	cagcatttac	tattgagtcc	tacagggaaa	cacacagaag	180
caattcattg	cttgggagtg	aaactatcaa	ctaactttac	gactactggg	tctccaagtc	240
ccctaataaa	gaaaatttta	acctcatgat	catttcaagg	gaattttctt	ttcaactgnc	300
acataataac	ttggtaaacnc	aggaccaata	tacatgttct	gagttttaaa	aatatactcc	360
acctaaacta	tctgnctagt	ttaatctttc	tagttatcat	ttaacctaaa	atgagagacc	420
aaatcttatt	tccattaaaa	aaaatgaaaa	aaaggcccaa	tgganccttt	tgaaagngng	480
taaaccctgg	ggcttaaaacc	aatccggntt	atcaaccctt	ttgnccaaaa	aaacggttgg	540
cctnttggat	taaaaatggc	ccnccc				567

<210> 8718

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8718

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aaataggaat	ttggagttag	cagagttttg	ttttgaggca	gtcttgctct	gttgcccagg	120
ctggagtgcg	gtggcaggat	cttggctcac	tgcaacctcc	acctcccggg	ttcaagtaat	180
tctcgtgcct	cagcctccca	agtagctgag	attacaggca	tgtgccacca	tgccctggcta	240
atttttgtat	ttttagtaga	gacagggttt	tgccatgttg	gtcaggctgg	tctcaaaactc	300
ctgacttcaa	gtgatctgcc	caccttggtc	tcccaaagtg	ctgggattac	aggtgtgagc	360
caccgtgccc	agccacaagt	tgatagttct	tctggcacta	aaagaacttg	tctcacttcc	420
ttctggcctc	catggttttc	agagagaaat	ccactgtcat	ctgagttact	tttccctcta	480
gttaagattt	cacttctttc	ttganccttc	aacttttttc	tggctttaag	ttttcaaaaa	540
tctggcctat	catggacttn	ttggggttac	ttacttn			577

09629469.072800

<210> 8719  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8719  
caactttttg caaagcagca tagcaacaat cgtgattgta gcacttgcct gaggttgtgg 60  
tcacaaccaa cgtagtaaac atcatttgca tatcagtaag aaaaagaaaa caggaggaga 120  
tgagttctta caaaacaaag cagattctag agatttctact gtgtctgcat tgctccttcc 180  
acgcaagttc tcccttagct gaccgcaatc ttgttttctt ccaggaagtg aggaaactgg 240  
tgtttgggaa cgccgtcagt agcacttggg ttttccacat ctgactgat acccgactgg 300  
gagccatcca tcttggagac agtggcggtt ttcacaacgg aggtggcccc caaggaaacc 360  
gggagggtag gaaccccccc actctggatc acagagatct cattgggtctt cacggccaga 420  
ccgccattga gcatgctggt gtactgggtc cacacaacag ggtccacatt cactgaaggg 480  
gccnggaatt ccttgggnaa gaattttggg actctttttc cgncccnacc taacaaancc 540  
tnggggtctt ganggccact tc 562

<210> 8720  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 8720  
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cagcaccacc tcccactttc cctgggggtat tgctttgccc ctgtgcctcc caccocagga 180  
agctacaana nacaggctgt cctgtcccca cactntccct gggtcctggg actccctgtt 240  
ctgaggggct aaggttgccct gggggccanag ggccctcccc agggacaacc atcctntccc 300  
tgngtcccct gccccccaca ctgagggaat gtctgtgtcc ttgttctctt gccagggggc 360  
aactgaggct gccaacccca ggggcccgggt gcaagggtg tgcggggagg gtggctcana 420  
tccctgcaag gaggcntgct gcagggacag cacaccttg gccccccggc agacattaag 480  
gccaatgtgg cggcaccaat aggccttggt ggcccttgcc ccggggcngg aacttggaag 540  
ggcttgatt ccggggcttg gcccaattta atttt 575

<210> 8721  
<211> 475  
<212> DNA  
<213> Homo sapiens

<400> 8721  
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tggttttcag ctccatcggg tcatttaagg ncttctctac actgttnatt ctagttagcc 180  
atthtgtcaa atcttttttc aaggthttta gcttctttgt gatgggttcg aacatcctcc 240  
tttagcttgg agaagthtgt tattaccgat catctaaagc cttcttctct cagctcgtca 300  
aagtaaaagt ccagctthgt tccattgctg gcgaggagct gcgttccttt ggaggagaag 360  
aggcgtctg atgtthaaaa ttttcagctt ttctgctctg gtttctcccc atctthngg 420  
ttttatcnac ttttggcctt tgatgatggt gatgnncaaa nggthtttgg ngngg 475

<210> 8722  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 8722  
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gggaagggac aacggttcta cgattaacaa caggaactga taggaaccag aagctccaag 120  
gatttaaaaa aaaataaaat atatatttat acatttatat atatatatat atatcacgtt 180  
atgtatgtga gtcccagaca agcaggaagc agcagcaaga agcaactagc acacagaaac 240  
acccgtgcgt gtgcactaca cattcaagca aagccattcc tctagctagg acgcagcaat 300  
ccccaccctc ccacctacgg gcaaaagaga acagctgaaa acaaacttcc ctctttaagg 360  
gccactcagt aatttttgtc ctcttggcca ggaaaaagaa agaaaaacaa aacaaaacag 420  
aaaaggtcga tcttgccttg aaagcggcca gnggctattt ctctctctgc caaagcagga 480  
cacgtattct tacacagang gccacatngt gncntacaa tnccttanaca gt 532

<210> 8723  
<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 8723  
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atgggaatga aataacatgc ttctgtttta aaaaaaaaaa aaaaaaaaaa ncnaaaattt 240  
aataccctaa ttaggtttct ggaaaaaaag actaccctag caataatttt taacattcta 300  
catttcattt atttctaaag acactccctt tacaaaatct tttagtttta tatattagga 360  
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caaatgggtt agccacattg gctgntccat tcacggattc tctaananc gttgggagga 480  
gccntataaa ctgggtcacgt tagctaagta aaagggcnat ctgaccatgn tctacacctg 540  
ngctttacaa aatccgattt gggggcccg 569

<210> 8724  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 8724  
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<210> 8725  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 8725  
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<210> 8726  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 8726  
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ttttttttta cattttatta ataccaaagt gaaaaatggc ctgtgcttat actacaagga 180  
tctcatatga atgcagtcct gattgttcga cacagcaaga aaattcactt tcacagtcaa 240  
caagtcactt tactcagtag aacacaaagt aaatgggtta taactccaat atttgcaagg 300  
aaaatacagt acaaattact aaaaaatact aaaatataga attgngttca ggcatntcca 360  
ctacatcaat cgcagcagta acctgaaatt tgaaactttt aataaaaagt tcttaaatat 420  
aaattatatg gcaaatgtca gtacattgct tttttcagtc tctttttcag tgttttgcag 480  
tagaacangg ttcctaccct tnaccttcct taggtttaa aaacccaaac cacaantctg 540  
tggggagtc ttnncnttat gng 563

<210> 8727  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 8727  
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nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240  
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nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 360  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnn				568

<210> 8728  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 8728

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aatcactgta	agaaataagn	gactttttaa	acaaacacag	acacacacac	tcctnttaag	180
agtaatatat	acncaacaca	gcagctacat	gggtgttcag	gcaaaggggtg	catgaacgan	240
aagccctntg	ctccctgccc	gatgagaaaag	tccccanaaa	ggattcagca	gcagcaagtn	300
tacagcacaa	acatggatgg	cattgtccct	gaaaacacac	agttagggtg	acctacagga	360
gacattggag	cctagacatg	tgggaaaggg	ctcagttcag	tacattctac	tgcatacact	420
tgaaatatta	cagtgngttt	tttctccaga	ctattataaa	taatttttcg	ngctttctga	480
aaaaaataaa	actgaacttt	tagtctgcga	taaaggngac	ccttntttta	agcaagntac	540
tacatttgca	ggatttgggg	gga				563

<210> 8729  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<400> 8729

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tgtcaaatac	atagtgaata	tatctataga	tctcctcagc	cttctgatga	gttacttgtg	180
catacatgga	gatttcttga	agtgagctgt	tagccatcct	tttcacagat	gaaaactggg	240
gacacatatt	taatgcagtt	atataactta	tattgggaat	acttaaataa	aactggagtg	300
cctcactttt	attactattc	accactgttg	gaacatgaat	accaacattc	tttctttgtt	360
ccactaaaga	cagttccttt	agcaaatctg	cggtttcttc	ttggcaggaa	ctgaaaagaa	420
ttcggattcc	agcgccaatt	aaggtagtca	gcaggctgtc	atagctcttt	gtctcctaaa	480
catccttgat	gtgtctcctg	tttttctctg	tccttttccc	aatcacacat	attctttcaa	540
acttactctg	cangtgccgg	aactgntcaa	tggan			575

<210> 8730  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<400> 8730

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gagaaggcgc	tcagcagaaa	gggtggaatc	ccaactgaca	gccaggctgg	cgcaggactg	180
caggggccca	gcaggtggat	caagcaccca	caagcagaga	ctctgggccca	taatctgcaa	240

acagagcctg	catctcccag	ccttgcccca	cctgggtcca	cactccttgc	aggggacagg	300
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aggccagctg	tggttctttc	tatacatccc	tgctgctgct	cctgctgacc	tggcaccttc	420
tcccttgggg	atgccaggca	caagctgctg	atcagctcta	catttgattt	tctttctttt	480
tttttttcta	agagatgagg	nctcaactaca	ttgcccagg	tggtcttaac	tcctaacctc	540
aagtgatcct	nctggcttgg	nctnccaacg	ctaggatac			579

<210> 8731

<211> 580

<212> DNA

<213> Homo sapiens

<400> 8731

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atacatgggt	agggatagca	tttttaggag	aacaagtgc	caaaaaactaa	gttacctctt	120
ttcaggtcag	ccaaaaaacg	tgaaggga	gtggacttta	tacaacttag	acatttatgt	180
agatagcaca	gcagactcat	gttcaagcca	gccacctgaa	acattataag	tccgtcgagg	240
gggacagcaa	tctatgggtc	atggactgaa	tccagcctac	ttttgtatgg	ctctgagcta	300
agaatcgttt	taatattttt	taaagggtgt	taaaagcaaa	taacaaagaa	tacatgatga	360
ctctattctt	gttctcatgt	gtgaaccata	tattatagcc	tgcaaagtct	aaaatactta	420
taaaccggcc	ctttacagaa	aaagtttgca	gacccttctt	ttacaccagt	gctgtagata	480
attctggcag	tacaactgca	agtctaagat	aatgntcatt	cattcccatc	ataaatgtaa	540
cattctaaat	angngncttc	tgatgtcatc	tgncanaatt			580

<210> 8732

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8732

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tgttttaaaa	attgaaagcc	ttacttataa	ggagagcttg	cctatatgat	actactttca	120
gtgttaccac	aaggcttatg	agcctaaatc	tatcctcata	ttaatgggca	cacttttaggc	180
actttttcca	agaagtgcaa	acctgttcct	tggaagagat	aaccacttaa	tccattagtt	240
ttttcgcttt	gaaaaagcag	agagctgatg	gaaaggcctt	aattggagaa	agcaatccag	300
ggctgctggg	tgagggtgg	agaatcccag	gtggaaggct	gggcatgagc	catacactag	360
gtgtctcaac	tggtgaggtc	aatcaagtgg	gagaacagac	caaaaaaact	tgaggacgcc	420
ctaaagagat	aatctgcctc	ctattgcctt	cagctgcctt	tctgaggatg	ttcttaaatc	480
acctatgtag	gttagaccca	ggaaagctta	aaggagacaa	ctggaggaag	anggtatcaa	540
taattttana	gtaggctggg	catgggtggc	caccc			575

<210> 8733

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8733

aatcaaattg	agtattaatc	tttaatgcat	ttttttttct	catttgtaaa	aagacatgaa	60
------------	------------	------------	------------	------------	------------	----

tgaagttttg	aggttcgtga	gatttcatct	tttcttgaat	ggtcacttaa	agtccaactt	120
gacaatgaac	tgctctgaaa	acgtaatatg	atatataatt	gcagaagcag	gtagagtata	180
aagatgatga	ctagatgggt	tctgaagaaa	tcaagagaat	ggtaagaaaag	tgagagtga	240
agctttaagg	agatatatac	tacatgtgac	taaaataagc	ttaaatgata	ctctctactc	300
acagagtgcc	ttttgaattt	ttaccagaat	tcattcatta	attttaactt	aataagacac	360
agcaagagca	gtattaggtc	taaattacct	ttaaaaattt	ggctgcagac	attaaatgat	420
tacaaaacac	tatgatcatc	ttctgaaggt	attctacaca	tcttaatatg	gctactgaca	480
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<210> 8734

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8734

actttcatta	gtgctcattt	attatttatg	tagaaaagtt	taaaatgctc	ccaatgagtt	60
catcagttat	caagctcaca	tgagtttagc	ccactctcct	ttggtttttc	atctcataat	120
aagtcagcaa	aagttgacat	ttatcttact	agacatttcc	cattagccct	aactgaaaca	180
gatatcaaac	accctagatt	ctcttcagtg	caaagtatct	ggagtcacag	caattttaga	240
gacaagctag	tgcaatctag	taattttcat	agtcgcagaa	aactgaggcc	tanaagtgat	300
ttgtacatgt	gagcagctag	aaccaggaca	agaactccag	aacctgggac	cacgtgagag	360
taaaaagaaa	gggcaccgag	tacaggaaca	acaactgaca	catttcaggt	ggaaaaaaca	420
agtcacataa	ctgaaaacca	aaatcacagt	tacataacta	ttttatatta	gcttcctaca	480
tataaagtat	aaaaactcag	ctatacatgg	tatgaaattg	tacaaactta	cacttgggta	540
tgcctaaaat	tgncataaggc	ccncttatcn	gn			572

<210> 8735

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8735

gtctctgggt	agtcacgcta	gggctggcag	gggaggaggc	agaggaaaagg	cagggagaag	60
agaaaacatc	actgaaaaag	aaggtgtcgg	ggaggtacac	cctgattctg	accagcccag	120
cccacacaga	gggtctgaaa	ggttctcagc	cttctccatc	accacccctg	cggcctctga	180
aaagaggggc	ccatctcaga	cacaaaagca	gatactcca	accttatggg	gaaagctaac	240
ggaggaatac	tcacagcacc	gtggcacggg	acggcccttg	gcttcagagc	cgggctggca	300
ccgtttgtaa	acattagacc	tggtgatgtc	tggggatgga	ggaggagagg	gatgcccagc	360
ctggaccatc	aggtttgatg	aaagagacag	ggtggggccc	ctcaaggcct	gggaaatgtc	420
tattagctat	gggaaagagg	ctgacaggtt	catggtgggg	gttgcccagg	aaggtgtgga	480
caaggtctga	atctacctga	ctatgtatgt	gcacgacttc	agtgctacct	ttggaagtgg	540
ccaggcttct	gaggaactcc	actggcctgg	ggtaatgaac	n		581

<210> 8736

<211> 574

<212> DNA

<213> Homo sapiens

009629469.072300

<400> 8736

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aaaagacaat	ttcttgtaac	ttaaaaataa	agtatatatc	tagaaaccac	cacattaaca	120
tctactatit	atagtacaat	ctccaattca	aagctaattct	ttgtattttct	gtatttttgca	180
acttttgagc	tagaatcttc	ctccctatcc	aactatactg	ttatgtaacc	ccattgtttt	240
aacattttaac	aatacaactt	gggtattctc	tgacaagcaa	gaatatatac	tattgatcac	300
ttctatacac	aaaataaaaa	cagttcaaat	gactagaaac	taattttaca	aaagaaaaaa	360
aaacaggtta	gtaaaacatt	tcttttgaaa	acaatgggtg	aattagtatt	ctgaattgag	420
ctagagcaca	tttttgcttg	aagactctcc	atattaggca	ctatgcattt	atatagtcag	480
aacatttgca	aaatgctttt	cccggttatt	aggactcaca	acacctgggc	gctgggggaa	540
tagccggact	acctcagntt	acacagggag	aacc			574

<210> 8737

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8737

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aggcatgtgc	caccacacca	ggctaatttt	ttttgtagag	ctgggggttc	cccatgttgc	180
ccagattgga	cttgaattcc	tgggttcaag	caatctgctg	agccaaagtg	ttgggattat	240
gggtgtgagc	caccacaccc	agcctttttt	aatttataaa	atagagacag	ggtcctgtct	300
tgtcacccag	gctggagtgc	agtggcacia	tcttggctca	ctgcagcctc	gacctcttgg	360
gttcaagcaa	tcctcccacc	tcagcctccc	aagtagctgg	gactacaggg	gtgtgccact	420
atgcttggct	aatttttttt	gncgttgggt	ctttttttgt	agagatgaag	tctcgcccag	480
gctagtctaa	gaactcccag	gcacaagtga	atgctcctgc	ctangccttc	taaatgttgg	540
gaataatggc	ntgagccant	tgggccatct	gct			573

<210> 8738

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8738

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acatcatata	cgtatattct	catattctta	gaaacttatc	acaggtttat	tggctttcca	120
tcttatcaca	tgtcatatct	cgaaaacatt	aaatagaaac	aaaagtctcc	atgcaatttt	180
cagatgaaaa	acattctgtg	cattttcaac	ttgtgtgttt	tcgttttagat	ggttgaaagg	240
gtttgctaac	aactgtttcc	caatttaggc	tttctggcca	tgggagtgc	atgtcctgtg	300
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tgtagcaaga	gccagcctgc	ggatattgga	tatacaacca	gctgcagctt	cctggagatc	420
ctggtcaggg	gacccaacca	tatccagtag	aagctttact	gcccattctc	atgcatgggn	480
gatgcagtta	tcggcgcttc	tggaaaagg	tacaaggcct	gactgtcgcc	cgatgcccnt	540
tggggcattg	gattcagata	ccnctagtg	g			571

<210> 8739

<211> 576

09629469.072300



<212> DNA

<213> Homo sapiens

<400> 8739

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agacctctat	tttcattctg	tgtattaatg	tgaataacag	atggatatatt	taatatatta	180
ggcagatggg	aaactttcct	ataggtcttg	tgagacttcg	tcttataggc	tgaacaccat	240
tcacaaaatg	taataatgct	tcattccttc	aggttgaggt	aaagaacttg	agcaactgga	300
ttagcaaagc	tgcaaagaat	gaaatgtggc	ctaagatgta	attatgttct	ctgcccttcc	360
tttggggccag	ggtagttttg	cacttgacac	aatggaaaat	aggccataaa	gcctgaaaat	420
aaaatgttct	aaaccccaat	ctcacagcac	tttagtaggc	ttttcactag	gcactcttaa	480
agtattttca	acaaaatact	aattaagcta	ccacttcaaa	agagcttcaa	ggaaaagctc	540
tgctttctta	taaaatcttt	tgagacagag	tttccn			576

<210> 8740

<211> 378

<212> DNA

<213> Homo sapiens

<400> 8740

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gtccccgttt	tacagaggag	gaagttgagg	cacacagagg	tcaagtgact	tgcccaaggt	120
cacagacggc	ggccaagctg	gaaatggggc	ccggagcaga	cccttggttc	acctggggac	180
gggggggggg	tccccctgc	agcaagcgcc	agccaagagg	atgtctcgga	tgccanagag	240
gcgcatacac	agnatanagc	atccccctcat	gtactgagct	ggcttcgggg	ctgaccctg	300
ccctccccta	ccccgncctg	caggcccggg	ccattgcagt	tcanggctcg	tgacaccctg	360
ngagtnngat	gcngnggc					378

<210> 8741

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8741

gcaaaacaat	cagaaaacat	ttattatact	gaaatgtgta	catcctacta	ttaaaaaaac	60
aaagtagcaa	atttgctggg	gccaaaattt	atttagcctg	tttactggg	acaaactcac	120
gttcaatgcc	actcagtata	atttcaagtc	tgataagcat	ctaagtattt	ttactccgct	180
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aagggaaaaa	gtcagaaagg	aaaactctct	gcctatagga	tctataggag	ttacagatat	420
tttcaaatcg	atgatgaaaa	tagatcgtgc	ttctttgtag	caaataatta	acccctttaa	480
tgaataaaac	ataaaatgtc	aaagctttta	ctcactggaa	gtaagtttgn	cttctnggga	540
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<210> 8742

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8742

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acatgcagaa	ttggatgggt	agaaatgaaa	tcaatctatt	taggtccagc	ctaaggttct	120
gatagccaat	cagtagacac	aatcagagta	gtagtattcc	taagaaacca	ggataaatct	180
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tgagaagtgg	ccattgggat	ggctggggat	tccngagaa	accgncacac	caggctctatt	540
cttaaaacct	taagnggggt	ncaggacagc	ng			572

<210> 8743

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8743

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gcttctcttc	cactgttctt	tgaacaaa	ttaaattcat	tttccctgac	aggggtagac	120
aggtgtcata	atccctat	ccaacaggga	atacagaagc	aaggaggatt	tcaacactgt	180
actaaaggag	tgtgcacagg	gcagaagcag	ctggaactcg	gtgatgcttc	taactcctag	240
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aatggctgcc	atgctgcttt	tgcanaaagt	gactggcgat	aaaggcaant	gctgggaaga	540
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<210> 8744

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8744

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cagccagatc	caggggggtgc	ggtgtctggt	catgtccact	ccaagagcag	tagcaccatg	180
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gccccgaggg	gctggccagc	tcagagtgc	gaagagttcc	tctccatggg	tctagtccac	300
catccgtctg	acctggacgc	tgtcatagct	catccttggg	cttcgattca	ctgcctgaga	360
gagactcttg	tgcaggttcg	ggggggccct	gctgggcatc	caggggctgc	tcctgggaga	420
ggtccatctc	ttctgggctg	aagagcatct	tcaccaggtc	atctgcctgc	accctgtccc	480
gctcgtgtg	tcgagggtcc	anggtgaacc	acagggcgat	ggcacaacgc	tgccccctggt	540
gacagcctta	cttcatgngg	gtttcagtg				569

<210> 8745  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 8745  
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gacggaggac gcgcatgaga cgaacagggg atatgaattt ccccgccccc acccgcgggg 120  
agaggaacat tagtgcaaat cctagcgccg gccccgggga acctgcccct cctgggctga 180  
ttggccagct aaatgggggc accggagtgg atggggcgag gctgcggggc ctgaccggcc 240  
gactcactga ggcctacccc agccagtaca ttccagggtcc tgtcattggg cgacgcgtaa 300  
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cactaccctc gggacgagcc catttctctt taaccgtgac gacgcccacc ttcagcatca 480  
cgtctgggtc catgaaacga gcgcaatcct ganacggggc cangggccctt ggcaccacaa 540  
ctttacagcc aggccacacc cct 563

<210> 8746  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 8746  
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aaaatgatag cacatggtat ctgagctgct tacattacaa gaaaaaggaa atacagtagc 180  
tgaaatatgg cactcctggg aatcaacttc taaaccaa ataatgcctt tgaaatgatt 240  
aaatttattt gtgtattagt aagaaagccc caccaccata aatagtacaa tatttaaaaa 300  
taaaaaaaaa tacatctatc taagatagat agtgtatttg tactgttaga ctcttttaag 360  
tgcagaaggt ggttcagggt ttgccttttt aattaaataa ctgaccatat gctttataaa 420  
gtttcactca atcacaaaag ccaattttaa tcaaggaata tgatatcaaa gttgcataat 480  
ttcatttggg actggcagca ggttaaagtc ttaagcttta acattaatgg tcatttttagg 540  
caatggaata gttaaaaagt ctcaaatctc atatc 575

<210> 8747  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 8747  
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ttaagcacat aataaggcac ataataagaa attaagtaaa tacacagtaa ttctgagtaa 180  
gtattagaga ttatagnggt acaaaaaaacc cttgagatta atttttttct aaaagaagac 240  
cttaccaaaa ataactttta aaaaatctgt caaacatat gatagacctg aatattttcc 300  
ttaagactgt aaactttttt tctgaaaaa attataaaaa agtagtttat aagtaggatt 360  
atttttcttt aaaattttcc aagatcatat tacttgacaa ataagtgtca ttttgaaatt 420

taaaacatga	ttttttccta	ataaaaattat	tagttatttct	gacatcttat	taacagatct	480
tagttgaatt	ccacttaatt	ccctggggaa	gctgagacac	tgnattttcc	aatagtctta	540
aaaggtaaag	acnggccttt	ttaangg				567

<210> 8748

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8748

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 8749

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8749

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ctacctccgc	ctcctgggtt	caagcaattc	tcctgcctca	gcctcccgag	tagctaggat	120
tacagggttg	cgccaccatg	cccggctagt	ttttgcattt	ttagtagaga	cagggtttca	180
ccagggttgg	caggctggtc	ttgaactcct	gacctcaagt	gatctgcctg	cctgggcttc	240
ccaaagtgct	gggattacag	gcctgagcca	ccaagcctgg	ccaccttttg	gcttttttga	300
cagaactctt	tcaattgtaa	gtcagaaaac	caacacaaac	aggcttaatc	aaaataacaa	360
caggaatctg	tctcacataa	ttgagacatc	taaacagtgt	tactagatct	ttgattctct	420
tggctgnttc	ctttgggtgct	tcattcttgc	tggctttctc	taagtagtag	gaaaagatgg	480
caccgggaag	tcccatgatt	atgtgaccct	tacagnttca	gatcaaaaca	gaaagccttt	540
ctggaaccct	tganaacaan	g				561

<210> 8750

<211> 492

<212> DNA

<213> Homo sapiens

<400> 8750

gagacagagt	ttcactcttg	ttgcccaggc	tggagtgcag	tggcacaatc	tcggctcaact	60
gcaacctccg	cctcctgggt	tcaaccaatt	ctcctgcccc	agcctcctga	gtagctggga	120
ttacaggcat	gtgccaccac	gcccagctaa	ttttgtattt	ttagtagaga	tggggtttct	180
ccatgtttgt	caggctgggt	tttaactcct	gacctcaggt	gatccgcctg	ccttggcctc	240

ccaagtgtctg	ggattacagg	cgtgagccac	catgcccggc	tgcaatcacg	tatgagtttt	300
tctaaaaaaaa	ccgaaacact	ggaaacatgg	atgcatctta	aagactttat	gctaagttaa	360
accagtcaca	aaaggacaaa	tactgaatga	ttccacttac	atgagaaata	tgagtagnga	420
agttgatgat	ngagacaaaa	ngtntggctg	ttgctagggg	aagggnaggt	ggggagttat	480
tgtnaatggg	cn					492

<210> 8751

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8751

gtaaaaaact	ggcttttattt	gtcacttatt	caccttatct	cagttatgcc	atitttggcgt	60
ccacagtac	agtcccttgg	aagctggggg	cagccccac	ccaccaccg	tgaccatcac	120
ccacagggcg	tgagtgtggg	ccttgcaggg	cccagccgat	ggttacaggc	tgacggcggg	180
actatggggc	tcctcctgag	gcctgggtgc	ttccagcccc	ctgcccacca	gcttgggtac	240
agctgcctgc	ctgccagagg	ccaagcattc	ccaagcgtgg	gctggggggg	gccctgcccc	300
tctgtagcag	cagagcagac	agggcagtg	gagaaccatg	tggttaggag	ggcatcaggt	360
ctcaagagcc	tctcccttgc	tcaggactgg	gtctagacaa	ggccacgtgt	gataggggtg	420
taagccctgg	gccatatgga	ggagcctggg	gcccattctg	ggtcttgctt	gctganttgc	480
tgggtggctt	taggcaantc	cnttttgtcc	ttgggcactc	tggttcctgn	ttagcacttg	540
cancaaggct	caaaatgtgc	cctnt				565

<210> 8752

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8752

gtttgaaaag	tatataacag	atittctttat	tattatttac	aatcaagtgc	tggttgccaa	60
cataatgaaa	taaataaaaag	atgtgccctg	gcctgtgaat	ttcaactctc	cttgacttaa	120
gttctctgaa	gggcaaattg	gaaagcgggt	atcaggcagg	gaagagaggg	caggtggagg	180
ccaggaccat	cgggtgggaag	gccacctgac	tcctctctca	ccagctctaa	cactcacatc	240
cccaaattgc	cagagaacaa	gcatggaaga	aaaaaaataa	agtgcaaatt	taaaagtgat	300
aaaaagggtg	tttcgcacac	ccaatgaact	aaaactttat	acgtaggtaa	aatagtaaag	360
ataaatgttt	ttccttggcc	ttcatcacia	cccctgaaac	ggaaagatgg	cgctgctgtg	420
cttctgagcc	taggcttctt	gcactaaagc	accaagggca	tcgcacacag	gcttggcaga	480
agggccatgg	ncagaatcac	caccttcaga	caagattgtt	gaggctcgaa	tccttggcac	540
ccccaacttc	agtngcnc	ac				562

<210> 8753

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8753

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tacaaaaccc	aactgattca	cccatctana	acctgggttt	ttttccactt	ctcaacatag	120

ttgggaacat	ggaacatta	ataccacac	aattcccaga	gatggaattt	atccatcaaa	180
caaacagngc	anattaccta	aaagtgcact	tacctgcaca	actcgggtcta	agaaccttgt	240
gaaacaaacc	tcatggccaa	ggtttcatga	atctatttgg	tttcatacca	tgcaaacctg	300
aacaagtgtg	ctgctacact	aaactgaaaa	tcggttctca	ttttacaatt	aaaaaggttc	360
tcaacacttt	agcaactata	cagaatatga	aggtttattt	caaaaaagat	tacatttttt	420
taaaccagga	tacacagatg	cacttaatgt	aacagtacct	tctgcaaaaa	tagggtacat	480
aatactcaga	aatgcatgga	ccaatcttat	tctctaaaaa	ttgaccgctt	aanacttctt	540
aangntanac	agccttcaaa					560

<210> 8754

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8754

gcagaaggtt	aggtgtttat	ttgcactgct	tttataccgt	ctaccaggtt	aaaaaaaaa	60
aacagagact	cttttgaagg	catagatttt	agatatcaac	ctcagactgt	ggcatttggg	120
atttccagag	catgtcgttg	aggcactttt	gtaccagag	gcacatggaa	tttaccaggc	180
tgtggagatg	atgtgctctc	gggatgctgc	tgccagtagc	ctgggtgagg	agggaagaca	240
gcagtggacg	cacagtcagg	gcccagtagc	cagcccgctt	gcctttcgtg	tgattgtcca	300
gcaggtggca	cctgttccct	cctgccaccc	accttataat	tgcttccctc	ttgagcacct	360
tcagccagag	gtgggtggga	aggggaagga	cgtgcactgg	gttctgctat	gtgccagcat	420
ctttgggtata	aggagccatt	ccctgcccac	ggcangcagc	cagtaccac	cggggnttgg	480
gaacattggn	ggggctccat	tggcccatgc	tntcctgct	tntattagta	gggaatcgan	540
gg						542

<210> 8755

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8755

agaggtgtca	tgtttacttt	ttatttagga	gtacaaactg	agacaaaatc	atccttccag	60
ttagtgaggt	tttgagggat	catactaaag	agaagacagg	aaaacaccag	taatggtgaa	120
ggtcttgaga	aaaggacagg	acccgcagat	agcgagagat	cagaggaggc	cctaatttct	180
ttcctcattt	cctttccaaa	tatcccaaatt	gtgcaatgca	tcacctgaga	cagaaggcag	240
aaagcatcaa	gctctctgtt	tatcccaaatt	caatgacaac	cagaacttat	tttttttgag	300
atggggtctc	gttctgtcgc	ccaggctgga	gtgcagtggg	gcattcatgg	ctcatcgag	360
cctccaactc	tcagtctcaa	gcaaccctcc	tacgtcagtg	tcctgagtag	ctggaactac	420
aggcatgcac	caccacactt	ggctcatttt	taaaaaattt	cttgtagaga	caggatcttg	480
ctacattgcc	caggcttgag	tgccgtgggt	cattcacagc	tcaccgaagc	tcaaactctt	540
gggctcaagc	gaaccttctg	cttaagc				567

<210> 8756

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8756

caatgctgaa	aggaactttt	aatatcttaa	cttgacccaa	attatattat	tatttataaa	60
agttatataa	atgcaggctg	attgttttaa	aagagtcaaa	aagccaaata	taagtaaagc	120
actagaaata	aattcagttg	taaaaaattg	acatcattat	tctaaatggt	atgtggaatc	180
acaggaagaa	acatcattgc	aatcattatt	caaagtaata	ttaaagataa	cataagagat	240
gtttggcttt	aaatgtcaat	ttgaatgtat	agtgtctaca	ataatagatc	aaagagaaaag	300
taagtatatc	tgtaataaaa	acaagaaaaa	atgagttgca	aatactgtat	tctacaatga	360
aagaagaatg	cagattaagg	ataaaacagt	cttaccaact	aggccctttt	aaggatcatt	420
tttcagggtg	gctaaaagga	gtaacaataa	agctctacac	atataactaa	aatgttgcaa	480
ttaatctagt	ccagcacttt	nattnganag	ttctcaaatc	anagtnnaa	tatnt	535

<210> 8757

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8757

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tctaggaggg	ggagtgtggt	agggggacga	gggacaagat	gatgaacggc	cgtgggcatc	120
ccgtaggggg	gcccggcccc	acccccgccc	aaccaccccc	ctcggcaacg	ctgcatcagc	180
ttcaccatga	ttcccagttg	tgctgggctg	gcagggcgag	atggctggaa	acacagaggg	240
acagagggac	agacagcgcc	tccacaaaaca	aaccctggcc	tgccccggcc	cctacgtcac	300
acgctggggc	ctgacctgag	gcgggcctcc	caccgccccg	gcctgatctg	tccagggaaa	360
gggcgacagg	gaggggaggc	gagggggccg	ngacgcaggg	gtagtggctg	ccaggacccg	420
gancaggtga	ggacctctc	gactaatcct	ttttcttgct	ctctgctgct	tttgnagggg	480
cttcctgggc	ttcgttgcaa	actggncctt	tgggtgggct	tngtgggcag	gnacctggag	540
gcctcctcct	tggtggcngg	gg				562

<210> 8758

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8758

aaataaacca	aatgcttggt	ggagaagttg	agcaggggag	atgggcagta	gaggttgcca	60
agacagggca	gggggtctgg	atgaggctgt	ccgatgcctg	ccagccacag	tgatgggtgca	120
tggaggggaag	gaggagcaga	gagagaagat	aggcgtggcc	tccgggatgc	ccattctttt	180
tgcagagagc	agcggcagtg	ggtccagggg	tcctggaggg	gctggaaggg	ggcagctggc	240
tggacatcca	gaagcttttt	cttccctcgg	ccacgcctgc	ctggcggcct	ccagtcctta	300
gcctccgctc	cctctctctc	tccagatgcc	cgccccactc	cgtgtccata	gcagtgcacac	360
agccacttcc	ccagctccgt	gtaattccca	agggagcagt	gaacccacc	atctcaaagc	420
tgaagagctg	ctggccacac	acatcctota	cggtttctcc	ttcttctgaa	cgccggcttt	480
gctggccctg	gaatcttgga	aaataaaactc	aggangngaa	aagttgactt	ggttcttggg	540
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<210> 8759

<211> 636

<212> DNA

009629469.072300

<213> Homo sapiens

<400> 8759

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gttgctgact	aattgagatg	catgctttgc	atacttctgc	ctgctgggga	gcctggggac	120
tttccacacc	ctaactgaca	cacattccac	agccaagctt	gcaggtggca	cttttcgggg	180
aaatgtgcg	ggaaccocct	tttgtttatt	tttctaaata	cattcaaata	tgtatccgct	240
catgagacaa	taaccctgat	aaatgcttca	ataatattga	aaaaggaaga	gtatgagtat	300
tcaacatttc	cgtgtcgccc	ttattccctt	ttttgcggca	ttttgccttc	ctgtttttgc	360
tcaccagaa	acgctgggtga	aagtaaaaga	tgctgaagat	cagttgggtg	cacgagtggg	420
ttacatcgaa	ctggatctca	acagcggtaa	gaccttgag	agttttcgcc	ccgaagaacg	480
ttttccaatg	atgagcactt	ttaaaggctc	gctatgtggc	gcggtatata	cctattgacg	540
ccgggcaaga	gcactcggcg	ccgatacact	attttaaaat	gactgggtga	gtctaccagc	600
cagaaaacat	ntacgggtgn	atgacgtaga	naattt			636

<210> 8760

<211> 610

<212> DNA

<213> Homo sapiens

<400> 8760

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aaacctccac	ctcctgggct	caagtgattc	tcctgcctca	gcctcccaag	tagctgggat	120
tacaggcagg	tgccaccatg	cctggctaata	ttttgtttta	gtagagatgg	ggtttcacca	180
tgttggccag	ggtggtctca	aactccagtg	atccacccac	ctcagcctcc	caaagtgtctg	240
agattacagg	catgagccac	cacgcctggc	cccaaactga	ctcttgacca	aagaatctga	300
tttggcaaac	caaactcttag	tgcaagtgtc	gctcctcgtc	cccttaccca	gaacatgatt	360
cagatcctaa	cataaacaca	aaaacaggtc	agggaaccaa	aacactgtgg	tcttgctatt	420
atacaaaata	ttgagataat	gttcacgatt	cattctgnnt	tcagcaattg	ngacaatttt	480
gaacttctct	cgaacttcga	aacacttcat	ttcctactaa	atcccaaacg	tgtaaacang	540
cttcaccagt	gggacttggg	ttgggttggg	ttttttgana	aggaatctcg	ctntgtaccc	600
agcttggagg						610

<210> 8761

<211> 457

<212> DNA

<213> Homo sapiens

<400> 8761

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
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<400> 8764						
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aaaagcattc	tgatatggcg	ttcctctagt	gtgacttttt	gcatgtaaat	taatacagcc	120
tttttgacct	tccatacagt	caggttcctc	ttcagtgtgg	atgtttccta	acgaccaagt	180
tcaagggtt	tccaacatct	ctttcactca	tgggacttct	caatgtgtgc	tttgacatgt	240
tcccaaagt	gaagctaaaa	acaaagaaga	atctccacac	attttacatt	cataagattt	300
ttcacacttg	tgagatcaca	gctgaatatt	aagggtataag	gcagagcgaa	aggtttcaac	360

acatttcctta	cagccagagg	acgtgcattt	atatccaatg	tgctcacaag	ctcagtaagg	420
cccgaggaaa	ataatgaaag	cttttccacc	ttcctcacat	tcatagcatt	tctctccagc	480
atgagttcaa	acagactcag	taagatgtaa	gcacgcacag	gtttctaccg	tcaagttggt	540
tcctaggatg	cncagacnca	tgaatagtan	ggctatggaa	ggagcccaga	tttncacatc	600
ctaaatcaag	gctcct					616

<210> 8765

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8765

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atatatgggt	agggatagca	tttttaggag	aacaagtgac	caaaaactaa	gttacctctt	120
ttcagggtcag	ccaaaaaacg	tgaagggaaa	gtggacttta	tacaacttag	acatttatgt	180
agatagcaca	gcagactcat	gttcaagcca	gccacctgaa	acattataag	tccgtcgagg	240
gggacagcaa	tctatgggtcc	atggactgaa	tccagcctac	ttttgtatgg	ctctgagcta	300
anaatcgttt	taatatTTTT	taaagggtgt	taaaagcaaa	taacaaagaa	tacatgatga	360
ctctattctt	ggtctcatgt	gtgaaccata	tattatagcc	tgcaaagtct	aaaatatTTA	420
taaaccggcc	ctttacagaa	aaagtttgca	gacccttctt	ttacaccagt	gctgtagata	480
attctggcag	acaactgnaa	gctaagataa	tggtcattca	ttncatcat	aatgtacatc	540
tnaanagggg	cttctgancg	actgncnaat	tcttttaact	tttcttcat		589

<210> 8766

<211> 614

<212> DNA

<213> Homo sapiens

<400> 8766

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attcactgag	agtaataaca	ttcacatatg	taattagagt	ttaaaaatgt	aaaaaactta	120
gggtaacaaa	cacttttaaac	ttatttttta	gacattcaat	aagcccatc	tcccacaaac	180
tgtttgatta	caaagaagca	caatgggtta	actgtggcaa	aacataagaa	ataaggcagg	240
ggaggcagat	acagacttga	gaacataagg	atatccaaac	aattttgtca	atatcaaaaag	300
acaaaatcaa	aacatctttt	ataatataaa	acaaatccat	ataattaaat	actaattagg	360
tgaaagatta	tagggtatat	aacattttatt	ttctctacat	aaatttgcat	atcttaaatt	420
taatgcaaaa	catcatgttt	caacttcaac	ttaacatcat	aacatgtagt	tcttggtgag	480
tctagatgta	atggaatgaa	tattttaaata	gacttcaaag	atcctgtcag	gttttaattg	540
gtattgggtgc	ttaagnctta	atgctttctt	tattatggac	taagccantt	tagaaccaaa	600
tcnaccacn	ccct					614

<210> 8767

<211> 611

<212> DNA

<213> Homo sapiens

<400> 8767

cttttaaaaa	gtgatataatt	aaacttatat	acaggataat	tagcaaaatg	tagaaaggga	60
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aaacaatgta	caaaagacag	ataaaaaacca	tcactctcga	cggatagtca	caatccaaaa	120
atagtataaa	ccttaacaaa	ccctctctaa	accaggtcat	attcacatct	ccccccaagt	180
tttgtcagtg	agaataaaat	atactgaact	agtgaagctca	gtctttcttt	aaaataggct	240
tgactttgga	acatgaacct	tgatagatt	tttaaacatg	ggagggacaa	acaggaaaaac	300
cattctatct	atccacttaa	ttagtactaa	ttaacggaac	aaagttatta	aatagctctc	360
agtgctaagt	caagccatta	ttcagaggcc	tttttgtttt	tctgctgggt	tcgggggtgag	420
ttctttaaca	agcttcttat	cctgagggtca	ttccagtaga	ttctgccata	ttctcaaat	480
caaattggcgt	gattccagtt	gcaaatttgc	tcattgtcang	tatagggtca	tgaattttan	540
tgggnccgtg	aaggctgggtg	ctgcagaaaa	gactttgggt	gcccattgntg	atgccangtt	600
gggncaactg	c					611

<210> 8768

<211> 613

<212> DNA

<213> Homo sapiens

<400> 8768

aactttctgc	tctatattgt	ttgtttaccg	ctgtatctcc	cacagcttga	acagtaccaa	60
ggtaccgtag	taggtgctca	ataaatgact	attgaataaa	tgaacatata	caacaaatgt	120
tctcaatgta	aaggatcaga	gatgccacat	gttctccttg	atgggagaga	cccttcacac	180
tgggaatgat	gggaaggagt	tgtactcctg	gatgttcagt	aactgcttct	aggagaaaaag	240
gtagagtcc	atcactaagc	cgcagatatt	tatttggtgtg	tggttagaat	gggatgtttt	300
gaatcttctg	ttacaacctt	gggaacgtgg	ctgttatattc	aatttatgag	ccagaaaattt	360
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tcgtaacagt	agttgagcca	aatctgagtt	gatctgatga	ttccgaacac	tggagagaaat	480
cttgaacagg	agtgaagact	ggcggctaaa	gcccttcacg	agaatgctca	ctgggcccgn	540
tncacgctca	tccagtggcc	taggtctgac	tgccagcgaa	caaaactgtg	cngagactag	600
gattcattcn	gcg					613

<210> 8769

<211> 618

<212> DNA

<213> Homo sapiens

<400> 8769

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tctttgaaga	ccatggagta	tgacttctaa	gagcaaact	taacatcaga	tttgtatgtc	120
tcactacaaa	aagaacccat	cactgatgta	agacctactc	atgatactga	agtagatttt	180
ttaaattaaa	aaataaaaagt	agtcatttaa	aatggaggaa	ttgtagatga	gtatggaaaa	240
atccattcac	aaagtttact	atttgcat	tctaaaagaa	ttttatgtaa	taaaatagaa	300
aactaatgat	ttatagagat	gtgcataaac	tcaagagagg	aatatggaag	ggaaaactgt	360
gttatattcc	catttaaat	taaaaaaa	aagataaaac	acttgaaatc	tgtgtttcac	420
atattagaaa	aaaataaat	caaattgattc	taattccatt	agcttggttaa	tgtctccatc	480
tctaagatgc	tgccaagata	gcacacaact	ttcctctgaa	tatgcaccta	acttcagggt	540
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tgnaaanct	anccntc					618

<210> 8770

<211> 614  
<212> DNA  
<213> Homo sapiens

<400> 8770

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attcttatag	ttacataatg	tgaattcatc	aaaatgcagt	taagaaactt	acaggaatat	180
atacacttga	acccaagacc	caaacctgac	attatataca	acctattttac	aaatacatat	240
ggacagacaa	tatatgtaca	tagattatca	taaatattga	aaaatagggt	agcttttaatg	300
gattaatggt	gttctataaa	taacattaca	gttgtaactg	aaacatccac	ggaagacagt	360
aatgcaaaat	gaggtgacaa	gacagtgggt	ttaatactga	agactgctca	ttaatgggaa	420
ttcattgttc	aggaacctca	aggtagacaa	gatagctccc	agaaaatcat	ccattggaat	480
tttccttagg	cacttgattt	tgaaccttaa	atagccngag	gattggagga	gcttcctcac	540
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ccatcaaaaa	aaaa					614

<210> 8771  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 8771

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 8772  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 8772

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nacttttctc	ttcccttggc	ctttcctctc	ctcgccattg	ggccaattcc	ttcgatttct	180
catttccctt	gaagttaggg	ccattcacag	tttcatggtc	aaagccagtt	ccaggttcaa	240
tagtctngna	tttatccagg	ctctgaggta	tgcaccgctt	ctgttttgct	cgttcctcca	300
agagctagtt	tggccagaaa	ggggatgctt	tataccatag	aacacatcca	ccttctagaa	360
cctgctctag	aaggccaggc	cctcagattc	cacatggttg	gagttctggc	caagtctgga	420
gctttcttca	cacttngntt	ttaaaactnt	gggttcaaaa	aaaactgnnc	ntggtgagan	480

aagaccgggt caaaccgagg cccctggagg acctttggaa ccttggaagc t 531

<210> 8773

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8773

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ttgatgctga	cttaagagaa	atagaagcct	ntatataagg	caagagtcca	taccagaaga	180
attcgaccaa	tatgagatac	ctccaaaaaa	atcaactcaa	taacctactt	tatatgtaag	240
agacccaaaa	aagtcagctt	ttgtgggaag	ttgatatgca	gtttattgaa	caaacagagt	300
gtacagtaac	taaacgaact	gtgtatttcc	aaaggaatta	agaccgcata	tctggattca	360
cacctaaaag	cacatagaaa	attaaaccaa	agaagggcaa	gttttgacta	aaatcacttg	420
ggcccangtt	attctataag	aagattctca	ctggcatttg	atagtaactt	atcacctttt	480
gngcgagctt	gggaccagct	gctcaggaac	tggttctgct	tanngcggga	tgcccaatgg	540
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<210> 8774

<211> 613

<212> DNA

<213> Homo sapiens

<400> 8774

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taagaaaagt	ttccatcagg	tagccacttg	tttttatact	gaaagactaa	tctgctccaa	120
aatgctccca	agtagaaatg	acaggactca	aatccctttt	ctaaagccca	acagctaact	180
ttttctgact	aatctctagc	ttcattgaaa	ctggctacca	agattgcatt	tcaggctaac	240
aattggcttc	ttagttaagg	catcacaact	gaaaatgggt	atttcaacaa	tggatgctgt	300
ggatgaagga	ataccaacaa	acttctaaga	actctcatca	aaaactaaag	caatttgctt	360
tgccccagtg	gcaggcagaa	ggaatttagc	ccattatctc	acaaactagg	aaaggatttt	420
tgaattctga	actagcagtc	tgcacttgtc	acagtaacta	tatgtataag	ctggatcatt	480
ttgatattca	gngacttttt	gnagttaga	atatatatct	gnagcatact	ttaatcatcc	540
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cccccttacc	tta					613

<210> 8775

<211> 444

<212> DNA

<213> Homo sapiens

<400> 8775

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gctgcacaga	aaccctgtgg	gagagcagct	cagtccagcc	tgaaggcgctc	tttgggaacc	180
ccacctagag	gctgtaccct	tttctcggcc	tgtggccagt	caccacttta	gagcctactg	240
ccatgaaggc	agccctgact	ctccatgcct	gctgccacag	ggagatccat	ggagcaccct	300

ggggcagaca	gaaagcccct	aggggggcct	caggggaccc	ctggctctct	caggggtccca	360
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ccatcctnan	ncctgngctg	accn				444

<210> 8776  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 8776	
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tttgtttttg	caaaatttta
gcacataaag	caaattcatg
ttttgtaata	ggattttttt
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tggaaactaga	aaccacgccc
ccccagcatc	aaaacaaatg
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<210> 8777  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 8777	
gaaaccaatg	cattctttat
atttgggggc	atctgtggct
cagaggagaa	aacaacttcc
cagcaggcag	cttggcatgc
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cacaggctca	gatccctgga
cggaggacat	ccccagccta
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ctttgn	

<210> 8778  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 8778	
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gctcaagagt	taaagccagg
tctagtgttg	gttcactgct
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aggaaagcgg	gccgtgctgc	gggggggatt	cctggatccc	tctgcatgct	gacagacagc	300
tgtccacagt	gggtagccaa	ggtgactggc	atcttgatcc	cagctgaatg	aagactggat	360
ttgaatgcag	tgccagggct	gttctgtaga	caagagcgaa	cagtaccctg	ttcgctccct	420
tctgcagtac	cctgaggaag	gagagaggca	cccaaggcac	gaatgcagac	aacagangga	480
ctggncangc	tatcccgttt	tncanctgtt	tgtgccacaa	gccaccactc	catactttat	540
gtc						543

<210> 8779

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8779

cattataaaa	tgtcaaacat	gacccagtgg	ggttgtgatt	agcaattaga	gaaaccccat	60
cctaggtaat	aaaaagtttt	cccaaatagc	acctatatgt	ctttctgact	gtggtttaat	120
gagtaattaa	gaccattcag	ccaagattta	catttgctgc	cacctttaat	agcactgatg	180
aaaagtagaa	cttttttttt	tgacttcttt	ttcactgtgc	ctctaataca	gaaatttttg	240
ttaaaatatt	aagggttttt	aatgttttaa	gaatgagaca	taaaaaagtt	gcagaaaata	300
aatgataaat	tcttatttat	tgaaagacat	tcagttgagg	aatagggata	taactgtttg	360
ttaggtaaag	ttatatggca	catgattaag	ttccactaat	tcgtatttct	gcattatgct	420
ttctgataat	tccggagcat	tatactcatg	cagcagtggt	aggaaaagta	tgatgttttt	480
ttaaaaaatg	gtccattctt	ggccagccnc	atgggttacg	cctgtaattc	cagcactttg	540
ggagggc						546

<210> 8780

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8780

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ccctaccgnt	tntgtgcaaa	ccaaggccaa	cagctcctgc	tgccctcttc	tccctggaaa	180
agtcactgtt	acggggaggg	ggccaggggt	tgaaggatta	gaaggagata	gagggcttgg	240
tggggaggac	acatgtaagt	gctagaatca	aacactgaag	cgaaacaggc	aactggcaca	300
agcagcaagc	tgaggcatgg	gacggggcan	gaaaagggga	gggagggggc	acgtgcccc	360
tctgggcttg	ctcagctaag	gctctggggg	cttgccctac	gctggcaggg	aaacaggccc	420
cagagcctca	ccccaatacc	cgggagctag	ggacatgggt	ggcactggta	aanaaagggt	480
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<210> 8781

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8781

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agttggctct	cggtatgtcg	gaacaacaca	gagaaggctg	gaggttttat	caaaagaaat	120

gtcagtattg	ctctttgaga	aagttttattg	gcaccaggaa	gggtgttggg	agctggcaag	180
ctacaactgg	tgagcaaccg	ggcaggcaaa	attattccta	gagcttcagc	aagttctctc	240
agcagttatg	gacaaagctg	gtcccagctt	acagcacgca	gtttcaccag	ctggatgtgc	300
agagaattac	attactagat	taatgttatg	tgcctgaggt	gcttttatcc	ctggcttctt	360
gacttttgat	tgggtgtgat	aagaatgact	taatttggtg	taatccactt	tcacagcact	420
gacatactta	agtatggact	ganggttgct	gaattaaccg	gtgtgtaccc	gancccaaga	480
aggcttaatg	aantaggaat	tactgnttaa	gcctaagacc	tttattaaaa	ttttgtcc	538

<210> 8782

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8782

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aggtaagacc	atgaaatttc	ctaacgcttg	attttaatac	attgcgctaa	ttttctaaaa	180
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ggtatattta	tatatatgta	tgtgtgtgta	tacgtatgtg	tgtgtatata	tatgtgtgtg	300
tgtgtgtgta	tcccagagatt	atatgaacta	agaaacaagt	tgtgtatctt	aacagcagta	360
ctagagcgca	gagtttcaga	cttggattta	taaatgcctt	caacgtgtgg	tgtttggaag	420
aggagaagac	atcatctgat	tttcaaaaacc	tggaagtttt	tctcangact	ggaagtcaaa	480
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<210> 8783

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8783

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ggcttctatg	tacagagaca	agcaggggta	ggcacttaaa	gctttttgat	gaaaatcctg	180
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aagaaacatg	caatcagaaa	cattacagag	actgaagaga	gcttaagagt	tttctgaaaa	300
tgaaatgaca	tgtttttcca	gagtatcatc	tcaattataa	aatttgatgg	ttttatatta	360
tcatatttct	tcagtggtaa	atacctcatt	aaaaaattat	taaaaaatta	ttgacaatac	420
aaagccctag	ttagtatata	aatattacta	tactggtccc	atcttgtaag	ggaaatatcc	480
catctagata	tctaaatatc	ttctatcatc	caatatctta	aanccaattt	cttaaattg	539

<210> 8784

<211> 479

<212> DNA

<213> Homo sapiens

<400> 8784

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atgtagagag	aaagctggga	ggatcttggt	agtagagggg	aaaaaacaat	cacacagatg	120



aaaggataag	catcagaaag	gagcagtata	gaaaagagat	taaatatgca	ctcttccata	180
caaattaggc	atttagtaca	ggttctggca	tatgggccag	ttctaattcc	tgatgaggca	240
agggccttag	acaaagagca	ggaggagcta	gccaagggtga	ggaaaattcc	agacaatgat	300
ttgagacttc	agctgttcta	tttcttcttt	cttttattgc	caaatactga	aaggagacta	360
agcaaggaag	ctggatatga	aatgtctacc	ttcttgactt	acggttcatg	ttgtggtcct	420
tcctatttcc	accttaaaat	tgacagggcc	tngctnaaat	ttgngctncc	aangatncc	479

<210> 8785

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8785

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tacttccttc	actttaagcc	aatcatgaaa	tttcagtgat	ttctgggggtg	agggcgaaaag	180
gtggtgttac	gaatcatcgg	ggctgtggcc	cagttgcctc	acggagggtgc	aggtaggctg	240
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cgagagcatg	agagctggta	tgcaatgtct	tctgcagctt	ccagcttgca	cagctcgctc	360
tggccgtccc	ctgcagtggc	cagtgaagtg	gcgatcagct	cagctgcctt	ggagtcaccc	420
tcagcagaga	tgatggccgc	cttttccacc	acaaatctgg	cgctctctgc	ttcttggggg	480
gccacctgtc	tggttaactnc	tttcaagaan	gncanagtgt	tcaaaaacac	gttgtccana	540
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<210> 8786

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8786

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catgacaatt	gttattccaa	gacatcctca	gtaacttttg	aaatagcaaa	tttaaatatt	120
aacatgttct	tatatattaac	atgtttgata	ttttcttcta	gaatatcata	gcaaataaat	180
attcaacata	cacaaaaagt	acttaaaaaga	agctcctttc	ctttggacat	caacttttaa	240
aaacacgaac	aactttttga	aagacagaat	ttacaaatac	agaactgtac	tgacttaaat	300
ttggaattta	ctaattactg	gggatacttt	agtgaagtctg	catatgtgta	ttattaatac	360
atgttaaacc	atactgcaga	taacaaaaaa	tatacttaca	tttctcttcc	agagagtaat	420
gactgtattc	aaagtctgag	ggaatgacaa	aacgggatgc	acatctaaca	ctgatcccng	480
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<210> 8787

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8787

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008270.69462960

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gtctgccaga	gaaaagcttc	tctccctttc	tcctctgnca	tatcagagta	tggtcctta	480
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<210> 8788

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8788

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cccagctgta	atgagttaca	aggtgttatt	atctcacaca	cacacaggag	gcttcaactct	180
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<210> 8789

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8789

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cgcttcacct	ggctgttact	gctgaactcc	ctactntaa	nagcncagaa	nanaacatcg	180
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ggctcttggc	cctgtcactg	ngnctgggtt	atcctggggc	cccaaaagcc	ccttttttgg	480
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<210> 8790

<211> 475

<212> DNA

<213> Homo sapiens

<400> 8790

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aaagaatagt	actattttga	aacagccaat	atagtatctg	aaaatattcc	attttatcca	180
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ttggacttag	gtgaattcta	aatctttact	tcactttcaa	actacagggc	atngacntaa	420
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<210> 8791

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8791

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cacgctgaac	tcacacgtgc	cgggcaggaa	ggagctctca	cgaagtgcc	gctggatgtg	180
agcttgctct	ggcagcagca	gtgctgtcct	tgtttctgag	ctgccaccta	ttcactggag	240
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ttngngtctg	gtcagatttt	agtctgcttc	aaaatcaaaa	ggtcactcag	tcactcta	360
atgatcattt	tgaatatgga	aatttggtat	ttacatgctg	tacctcaaat	caaagaaaaa	420
gcacgcgtca	atatcacgcg	taggaaaaac	tagaaaattg	ttccttttcc	atttgccccc	480
tggttangtt	tcctcataac	nggtcngctt	ggaaaccaga	cttccccttt	naacagatgc	540
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<210> 8792

<211> 552

<212> DNA

<213> Homo sapiens

<400> 8792

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ctcttcactg	ggttggttct	taaaaaaaat	tcacgcaact	gacaggagga	attgtcttta	180
ttcttgcat	aatgataaat	gtaatctaca	agatggcctt	catggattag	aaaaaggaat	240
cagaccacaa	ggaaaaagaa	attgctgggt	ttcactcaag	atttatctag	aaaagtgtac	300
tgactactgg	aataatagtt	tacccttggg	ttgtaccaca	gaatgagaaa	ttctacaaga	360
ttatacaact	ctttttctac	aagattacac	tactcatatt	gntttttattc	cattccggaa	420
ttagaaatta	acttttctaa	tatcgnnttt	tttctccaaa	aaaatccttt	taccagctaa	480
cctgggatat	ggccaaaaat	atcttgatnc	tggnaaagg	ctatctccct	agtaaaaaat	540
ggaataaatt	gn					552

<210> 8793

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8793

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acaaagtaca	caacggtttt	aaatataact	gagagaaatg	tgagtcctat	gacaacatct	120
gatacacgct	gaaccattta	cagacacact	aaaaatgttt	taaaatatct	tctttctcca	180
aagagtccat	tgcgcathtt	ttagagtaga	gatggggaca	cattccaggc	aaggtcacaa	240
tggcattttg	ttgccctcaa	tgctgatttt	cactgcgtgt	gcagatctgc	tttttttct	300
tatatctgtg	aacttttcta	tctgtttatc	cagtcgactg	atacccttct	tggaggctgc	360
ctgaaacctg	gatgactcca	tttccacatt	ccatttgggc	ctgacaacat	agtccttgtt	420
tgaaggcatt	gggacccttg	cacgggcaca	gaatccaagg	atctccangt	cttaaaaccc	480
ttcttccttt	cttghtaacac	cctttttcaa	gggctnttct	ggggggctctg	acccccann	540
gctgttnatt	t					551

<210> 8794

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8794

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gttcaatgcc	actcagtata	atttcaagtc	tgataagcat	ctaagtattt	ttaccccgct	180
tctaaaacct	gatgaggaat	tcaaaaataag	cacacagcat	taaatgacat	ttattgttcc	240
ataaatcttg	agacccaaaa	aggaatgcta	aatagacaag	caaaactttt	aaaacaaacg	300
agataaactc	acttctttcc	ccagtgactg	gtacagaaaa	catgttggtca	cacgaaagca	360
aagggaaaaa	gtcagaaagg	aaaactctct	gcctatagga	tctataggag	ttacagatat	420
tttcaaactg	atgatgaaaa	tagatcgtgc	ttctttgtag	caaataatta	accccttta	480
tgaataaaaac	ataaaatgtc	aaaagctttt	actcactgna	gtagttggct	ttttgggaga	540
agatttcaac	tcc					553

<210> 8795

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8795

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caacgttaca	aagaaactca	ctagcaaata	aacaaacgat	attcacttga	ctcttctctt	120
ggttgaatga	ttttctatta	attagtagta	cacagctatt	tttatcaatt	tatgcttaaa	180
ctgccttatg	atttcaatga	aatttcttag	cttttacttg	ttgaataatt	ttttcaattg	240
ggaatctttt	cataattcaa	aatagttcct	gaaaattaat	gcctccttca	atgtcttcta	300
cttaagctgg	gtgcatttaa	aatgcaacac	aattctttga	aaggagacta	tgacatttga	360
gcataaagcc	tataagaaaa	agaaatgtct	tccctcccc	catgcttcac	agagactata	420
tgaatgttcc	atactcttca	tatttagcaa	caggagtcc	ttagagatca	aacagcagaa	480
aacaggagga	acttangcca	tcaatggact	tgtaaaacag	ataaactccn	aatgnatttt	540
aagattccat	cttcttcaca	gatgaa				566

<210> 8796

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8796

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
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<210> 8797

<211> 481

<212> DNA

<213> Homo sapiens

<400> 8797

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ctgcttctcc	ccagttacaa	gagactaaaa	gcatactaaa	aacactttat	cgtcattact	120
aaatgcatta	aatacacatc	ctaaatggaa	tatgctgtat	atccgatgaa	atacatagaa	180
cgttcatcaa	ggcaaaaagaa	aagacgtagc	caacaatgga	aagatggcac	acacaagaaa	240
aaaaaagaac	agtttctcaa	tattgcagta	acttttcaat	gtatcataga	tattctatga	300
cttttctatg	aaacagagga	ggaccaaaaca	ttatacacag	tttgaagaga	ctaaatgccca	360
gagaatctac	agatatttagc	atccaggaat	aatttttatt	cctggcccat	tttctgcccc	420
ctggaaaaaa	ttgcattggt	tttccttccn	aagaggncnc	ncaaaaaant	tntttccatn	480
g						481

<210> 8798

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8798

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aacctttatg	gaacacttaa	caattgtttt	gttttttaaa	taacatttca	ttcaaaactgt	120
atataattca	gtaaagtitt	ttatacagca	agcaatgctt	aaaccctgga	aaatntgtan	180
aaaagagatt	ttcacacaaa	ataagaaaag	aaaaatctga	ggtatccctc	acacacacac	240
atccattcat	tctggcccat	gtacgtgcac	atacacacgc	atgcctgtgt	gttcacacag	300
acatattcat	tctcactcac	aaagnggctg	cagcataggc	aaaaattgta	ggtccaaagg	360
aaaatgattg	attgttctaa	taaagagtcc	gagtagctca	gaaaaaaaaa	ccaaaacaaa	420
acacaagagt	cttctgagga	aattactacc	tcaaaaaaat	gttctcaaga	tgaatttgag	480
atctaagcct	actaaactgc	ttttgcaaaa	cagcttcctg	cagtccaagg	ngacttgggc	540
aatagaaaag	gaat					554

<210> 8799  
<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 8799  
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cctgtgtgac ttgggcaacg tgggtccagga gggcctgaga ctaacacatc cacctcggca 120  
aaaggacatc aaatatctct tacagtcgga acaaacagcc ttttgtgtat ttccttagtt 180  
tacgaaatat actcgaaatg ctattattag ctgaatttgt ggtttccttt tgagtttctg 240  
agttattctt atttattttt cccattttgt ttttgcacca aggagaccgg agtcaaataa 300  
tactcagcga ctgatttcct ctctttggac tgaaaaatta aacagatact aaatgatgac 360  
agtgaattta gagagggtc caagggcttg aaagaacatg tctgggataa tatgggtgctt 420  
ctaagagtat tgcaatcaca tcgtggcaat caccggcgcg tgccgcgtga ctacctctc 480  
ggctaatatg ctttcttctc ggcatgact aatcacgttc tattaacag cagtaatgcg 540  
ggaagaactc ggctgtncaa gtgtaaagg 569

<210> 8800  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 8800  
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gttataaagc ataataaatt ttattttttg gaaatggaaa aatgtccctg aatagttaga 120  
tgtacctttt agtagtaatg tctaataata aataagaaat caattttata aggtccatat 180  
agctgtatta aataattttt aagtttaaaa gataaaatac catcatttta aatgttggtg 240  
ttcaaaacca aagatataac cgaaaggaaa aacagatgag acataaaatg atttgcaaga 300  
tgggaaatat agtagtttat gaatgtaaat taaattccag ttataatagt ggctacacac 360  
totcactaca cacacagacc ccacagtcct atatgccaca aacacatttc cataacttga 420  
aaatgagtat ttgcatatct cagttcagga tatgtttttt acaagttaat cctaaagtct 480  
taagccagga agcttttctt agtncaggat tttattggct aagctttaca aattaaccct 540  
taaaaaattn ttccanggtc n 561

<210> 8801  
<211> 376  
<212> DNA  
<213> Homo sapiens

<400> 8801  
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aggagtgan aatgttttat tcattttaca tgnccctttc ctggaagggt ggacagcaag 120  
atttaggaca agctaaaatc atccctatt taaaaaaaaa aaaaaaaaaa agtcaccagc 180  
aagtantccc gggngggagg tgggagcana ataaaaaaaa atctgcantg attcctaatt 240  
gtttttcaat acanaancct gggaaggggt ttctgccagt ttcagtagga aggcccaact 300  
tccaggtagn gttggggang ggtatgaggc cctatgcagg ctggcctctt atcccacaga 360  
tgccaanatg atgnnn 376

009629469.072300

<210> 8802  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 8802  
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ggggagaggt tagtggttcaa attgctgaga tcttaggtca aaaagctaca gaaaagaaat 120  
cactttgaaa aacacaatga ctcanaggca gtcacccctt gccagcaatt ccaagagctg 180  
aggaggcttc atgcctcagg acatgggtgac tagttgagtg aaccagagat tgaggcagtg 240  
gtttttacag gggaagaaac aagccttggg tgtatgggag caggaaagga gggtgacaga 300  
ctggagaaat gataaaggcc attttggaag cccacaggga agtgggtcttg ggaaacctga 360  
agacactggg atattcagaa ggccaagggg atccagctta tcctgttggg caagggtgctg 420  
ggagtgaagg caggtaagcc atgtcaaggc cctgggaagc aaggggaaaa ctggaagggg 480  
taccocaggt gaagaagggt atggaatggg gtgcanaagt ccatggagat gaccggcaga 540  
tctcaggccg gtttttggca catnaaa 567

<210> 8803  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8803  
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atttataaaa tataaaacat tttctgcttg gccgtatttg aagacaagct gaatacatat 120  
ctatgttctg aataagtcca ctatggatat atataggaag agatatacat atatccatcc 180  
acagatacac acacacatat atatttctgc atgtatatat acataattct ttctatagtt 240  
acaggaaata ctcttcttat aattctgatt ttgactccca tcctccacca tttactcatc 300  
cactcattac ctaaactctg gctttcttct ctatattgta aataatccat ccaaacttct 360  
agccagtact gtcaggaggg ttcttgctcg agtgagctgt taatactatt ttccactgac 420  
aacttctgca catcgaggga cacagtgtat ctgaagactc cgctgnatac ttccacaacn 480  
gggggcattt tcntttgtag tcggcatgga caatacttat aggaagaact nttacgaatt 540  
cnccccttta agtggggg 558

<210> 8804  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 8804  
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aaagtcggtt catnttcaaa ccaacaagag cactagagga cttgngactc agtaccttca 120  
tataacacca cataaataac tttagccaca gtcaatgttc acagcctggg cagtggaaaca 180  
aaggaaatac ttttctggcg attagacgtc atntgcagag agagctggga tattcatccn 240  
aggccgggtg aaaaatgcca tcttctccct gaaagactga acttntgggg gttccttaca 300  
gctntggcct nggagcctgt gcacatcctt ggcagctgcc ctcatcatct tgnctgtctg 360  
aagctcacco ttgtgctccg ctcggnccat ccgcttctcc agcatnctna gcagcaggcg 420  
gaaacgctcg tcctacgcaa ccactgtggc aagcttcttn tcccngngct cttggcttgn 480

tccanctggt ncttgagctt ctt

503

<210> 8805

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8805

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ttttgaaata	ttctgtgcct	tcggcagaat	ttcgtgtgtg	atcactgagg	actgaatcca	180
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aatttacaat	atcttcaaga	tcaggaacaa	atctaattggc	attgctgcta	caatgaagac	300
caccagatct	tatcattcgt	acatagccca	tagcattacc	aatctggctg	atgagttgcc	360
tgaattgatc	aaggtagctc	tgtccctcag	gtgttattcc	aagttttctg	atgcctcgat	420
tgaatttttc	tgctctatca	aaaggatact	tatgatcatt	tnggccttaa	tttccctgaa	480
aaatcgaata	tcctttaatca	atctggattt	gatgggtcat	catacataaa	ttggctaaat	540
ntntagaact	tccttttcaa	aa				562

<210> 8806

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8806

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catgttcctg	gatgggctcc	cccaggccta	agctccaggt	ttcctctggc	cttccgaagg	120
attttgnngg	ttacnaccaa	ctgatcaaag	atgacttttt	cctggcgctt	gctcanctgc	180
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gngacctctg	ccttcatttc	tccaatctgc	tcacagtcaa	gggggcactg	gccatcctcg	300
gggagtgaga	ctntccanan	aagcttcanc	cncctgtagg	cctnttccag	ggtcancctt	360
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agctcttgac	ttgtggagct	gggagcctct	tgggtttgaa	tgccatttca	gcaaggacct	480
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<210> 8807

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8807

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gccacactca	tatgcactca	cccctcagca	gcataatgcc	ccttttctga	catataaatg	120
caagagaccc	aggaccctag	atctttcttc	aaacgcaagt	gtctcacaca	cacttatatt	180
acaaatccac	tagaaatatg	gactcttatg	ttctttgtac	agccatgcaa	cagaggccta	240
gcatttgtgc	tgtgtctgtg	ggaaaggcag	tcagagacca	gtggttttcc	tgctttgggg	300
aagatggctc	aacagttagt	aatcccaggt	tagattgtca	gaacagtcta	ggccaggact	360
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cttgcgcacc	agtctctttct	tgncatccag	gggtttggct	aaggcccgaa	tcacctgtgg	480
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nggngaanc	ggacaagcc					559

<210> 8808  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 8808	
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gtcctccagg	tcgcacgtgg atgcgacagg ggtggggagg gaggaggaag tgactgtccc 180
acctntgcag	gaccatggga gtgggcaagg tgttctccgg ggcgacccc tgaaccagg 240
ggtgctgcag	gacttgggog gcactcagcc tctgcttggc gtcacggacc ancagcttgg 300
agatgaggtc	tttggcanon caggagatgt gggcccagtc cttgnngggg aactcgnact 360
tgccctcctg	gatgctctta aacagcatgt tctggcnngc a 401

<210> 8809  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 8809	
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tccccactg	atctggaatg atctacactg ctagtgaaga ggagggatgg caagctgact 180
aaataagaag	gcagggaaag aaagtccgct ttagttctga gggctgtgac attagatgag 240
agtggagccc	tgggcatgtc agccagcctt ctgtgtaacg cccgcccagg tcccattgtg 300
tctgttctct	cggtcctcca ctgttgccca catcttcctc caggctgctt aagtggccct 360
cctggagtgc	atgagtaggt cgcgttgagc cccagcctcc aggctggagg tcagtctggc 420
tgtggggagg	tcggctggca gactcaattt gttgaaaaca cctctgcaa agtagtcagc 480
aatcacagaa	aactgcattg gagcacctga gctgatgctg gaattgatca tggaaactcg 540
ttctggttcc	tggg 554

<210> 8810  
 <211> 580  
 <212> DNA  
 <213> Homo sapiens

<400> 8810	
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aaaattattc	atcagtttatt ttcatctgac atttactaa gtacagaatg cataatgtca 120
acattattag	atcagccatt caagtgggtc acataagttt atcctcattg tgccaaattc 180
ccactcaaag	gataagctga ataacagatg cctccagggtg tatacaacaa ccttagtttc 240
ttgacttgaa	ctagtctgtt ttaacagggtc aaactgctag tctttctaag taaactaaaa 300
aagactcaag	tacacagctg tacatacata tcatcagatg gtaagtccat ttcaacaaga 360
acctctataa	ctaactgtac atttgtacag ttttctgcta tcattgcaaa agccccctctg 420

09629469.072800

<210> 8811  
<211> 583  
<212> DNA  
<213> Homo sapiens

<210> 8812  
<211> 506  
<212> DNA  
<213> Homo sapiens

<210> 8813  
<211> 473  
<212> DNA  
<213> Homo sapiens

[illegible]

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<210> 8814  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 8814

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ttgtatctcc	tatgcccggtg	tcaagcagca	gcagggcggt	gggaacgggt	gcacctgcac	180
tgtggcagct	cgcaggcctc	cctgacgtcc	aggcggaggc	tttctcaagt	gtgggtgcct	240
tgggtccgac	ccaggacccc	ctcccagct	cccgtcctgt	ggaggagacc	ccaccatgct	300
tcctcaccac	cggctggaga	tgtcctgacc	ccctgcccac	tgcgccctaa	cattactgac	360
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tgagggacgc	ccaggccccc	ccactccctg	gactcacttc	tgtccccccg	agagaccttg	480
cccgggacat	gtaccacac	atgccctcta	ctggccaact	tanccctggg	gaaccaatgg	540
gtgaagaagg	gaagtcctca	cggncagc				568

<210> 8815  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<400> 8815

aacagtccag	ctgtgggttta	tttgggtacat	tcataagatg	ttcactccta	tatatatattt	60
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gtatatgctt	ccgatacata	aatgtttgt	aattttgtta	attctgccat	tcatttagctc	180
aataatttct	ctcattaaaa	ttctgtaaac	tatgaatttc	aaagaagtct	attctatatt	240
catctgggtc	atgaagtttc	ctctttgnga	atcttatgtt	agtaaaatga	ctttacaacg	300
tttaacatgg	ttcctcacct	gtatgaactt	tttaaaaaaa	ggtatgactt	gctgctaaaa	360
attttcagag	tggttactaa	attcagtttt	cctgtgtatt	gnctactatc	tttttgcatg	420
taaagaacag	ctttctgngg	atgcctttcc	atatgctggg	cattcataaa	gntctattca	480
gtatgagttt	tctggaagat	gncagaagga	ttcncttacc	gagttctctt	tatatatgan	540
ggntctatcn						550

<210> 8816  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 8816

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tagcaaagag	tcatttacta	ctctcagaag	tggcacatac	atggcataga	aaacaatcta	120
tagtcagtta	actattaaaa	cagaaacttg	aaatttaagt	gacaaacgtt	tgtagcactc	180
cctaaagaaa	taggaaataa	aatgcattt	atccatatga	acttgattat	tctgaattac	240

tgactataaa	aaggctattg	tgaagatat	cacactttga	aacagcaa	gaattttcaa	300
ttttacattt	aattataaga	ccacaataaa	aagttgaaca	tgcgcata	tatgcatttc	360
acagaagatt	agtaaaactg	atggcaactt	cagaattatt	tcatgaagg	tcaaacagtc	420
tttaccacaa	ttttcccatg	gtcttatcct	tcaaaataaa	attccacaca	ctatcaaact	480
aatcaagat	ttgctagtg	ataaaattac	cattaatata	ccgactctnt	ntggaacagc	540
tccaacatct	ggttttgcaa					560

<210> 8817

<211> 484

<212> DNA

<213> Homo sapiens

<400> 8817

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gaagctacaa	ataaagctta	cttctactga	actcatgaag	ctgttcctag	tgtcagtttt	120
gagtttcaag	tgaagactga	atgtcaactg	caggctttcc	gaattcctcg	accatgtcca	180
tccatggatt	ctcttcttgt	ctagatttcc	aagcatgaag	atgctaacta	aagcatttct	240
caatggggaa	cacgaaaaga	tttctattat	tgtgggttct	ccggtgttcc	taaaggctga	300
gttataacta	aaggatttca	acctatttgt	gagtttcatg	gtaacgctgg	aaaaatgctt	360
gaagtgttta	ctttgctcat	tataggagta	tgttttcctc	ccagganggt	ttctctaaaa	420
ttaagagcta	ttctacaaca	gagacccctn	tacacttaag	gnatttatgg	ganncngcct	480
ntna						484

<210> 8818

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8818

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ctattcatac	atttgagtta	ttcccttttg	attatcgga	gccagattac	aaaatttagg	120
aaatgctacc	aagtcctctt	tgaagcaaca	ggcacataaa	taatttaaaa	ctctggaaac	180
aatttttaga	accttaatgt	gaaaaataga	ctttttttta	atgcatactc	atttctgtca	240
aaggctaggc	taaaagcttt	ttgaggggtca	cactgcgtat	accccttcct	catatgatgg	300
gtagttttgt	ggacacagta	aagagttaac	ccagcttcct	cggggacacc	aggctactct	360
ttctggacac	ctgccatcag	ttgccatgcc	taacaaaccc	ttccctggaa	gcagttagaa	420
cataccttga	gagtttagatc	catcttggtga	gtccagactc	atactacctt	ttggccttgg	480
aagtcccaaa	tgaagtaaat	tgggcccgat	gatgggcncg	atattcatat	tggccacttc	540
gtcctttgga	taactttt					558

<210> 8819

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8819

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tggttcaaga	ggggcagccc	ccaggcccca	ggctggggccg	cggtagcagt	ggcaggtccc	120

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cctgggtctc	aggagcttan	cttctacgga	gctcaggtgt	catttatggg	gttgccagag	180
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actggcgggc	acagcaggag	gagattagag	gagggtccac	ctgaatcttt	gcagcaggca	300
canagcttct	ggctgcatct	canaaggggg	cagacgcaca	ggccagggaa	cacgggggctc	360
taggctgttg	ctccgagtgt	ccctgggtgac	tggaaagcct	gaagggaagc	tggaaaactga	420
tacnggatgc	ccgtggcttt	gtgaaacana	atgagctctt	tcttntctgaa	aaaggggcccn	480
aaggggaaaa	aaaaaaaccc	gaccnttaca	ctgggtcctt	cattcctggc	ccnggggana	540
natt						544

<210> 8820

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8820

cgcatgtgga	tgacctgggtg	gcaactgggac	agagagccag	gtcacacggc	ctntcccacc	60
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gaaggagaa	cggaacccca	caccccctag	gcacctgcca	tcggttggtc	tttggaggaa	180
gccacctccc	ctcctgcccg	aggagaggct	gntaggcagc	tcccaaggc	tgactccagc	240
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taacgcacgc	gggtccaggg	ctgctgagca	gacagctgag	gacccggnct	cagccctgcc	360
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tggggatgaa	cagcgtgctg	ggttgttggg	aggattcaac	aagaaagtgt	ccaagtgggt	480
gcctggngctg	gngcccaatc	ccccgaaccc	antttgcccn	gtgaggnggn	ccctgtccnt	540
tgaccatttg	ccggggccgg	g				561

<210> 8821

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8821

gcaataaaaag	cacagattta	ttgaagcaaa	agtatatcc	acagagnggg	agcaggctaa	60
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cctattgggt	acaccctatg	cgccaccaat	cggaggccga	agtgaaggct	cccagtctcc	180
anactcttat	tctcctagct	caaagaaatc	cactgatttc	ctctgtagca	tcttcagggt	240
ccatcttgac	aacttcctct	aaatccccag	gggaanagtt	gtttanagac	tcctggatgc	300
cctgaggag	cggntccana	gottgccttc	cctcctctgn	tttcacaacg	gtccagcgat	360
aggcactgtt	ctntgacaat	ccttccttggc	actgtttatc	gactgggtga	ggccctgggc	420
tatgttccac	tttggggaaa	acagtancag	anagaggaga	atagntcctg	gggctctaata	480
tngggtctan	gncctgaaag	gcattttccc	attagcccca	gacaagcaat	ggcccn	536

<210> 8822

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8822

canggaactt	aaagagatta	tatttcaaca	aattaagtcc	tcatttgtat	gcaaaaattat	60
tcttccaatc	ctctcattac	tgacagatga	tgagtcaatg	accttttaaac	aaggactctg	120
cgctaggacc	ctaaactgta	tgttaaaggg	ttagtagggt	cagtacattc	tttgtgggtt	180
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tttaaaaaaa	aagcaacatt	ttttgaaaga	agggatatgc	agctataatt	tcttaaatat	300
gcataaaatg	aacatatgtc	aaaatcggaa	atgctggcta	ttcttgcact	cctaacatag	360
gaaaatgggt	tttaaaaaat	taaagaaaaa	agccaaacat	ccttaactta	agaaaactta	420
ggagttttca	caatttcctaa	gtcaatatct	ctgactaaga	gccttgacta	tgaagaggca	480
ggaatntaaa	gaacctcaat	aaaataaatn	cngtaaaaaa	caaaccaaaa	cttgggatat	540
agaatcttaa	atctttgggt	ttc				563

<210> 8823

<211> 490

<212> DNA

<213> Homo sapiens

<400> 8823

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ccttatcaag	tagcaattac	attgttttaa	aaaaaaaaaa	agaacagtac	atttctgtct	120
acattccgac	aatccaacga	ggcggcatgg	gtcacatcca	gtttgatgag	gtgacagacc	180
cagcagtcac	catccatggg	catggttctg	aggggactgg	ggagacacag	accatacatg	240
atacaaaatg	attctgcagc	aagtctgaag	gagcgcagcc	tccctcctaa	tacataagaa	300
tgaacgtcca	ggtagcagag	agtaggcgac	ttgcataatg	agcgcatttt	attaaataga	360
tagttaacgc	actgcttctt	actcattcca	agttgctgta	ggtgctgccc	gnattaacag	420
cagggacaaa	agcttcctat	gcgcgtttca	gcnggaatac	tnntnccact	ccaggnactt	480
nttgnnttgg						490

<210> 8824

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8824

gagacagagt	cttgccctgt	tgcccaggct	ggagtgcagn	ggcgcgatct	ccgctcactg	60
caagctccac	ctcccgggtt	cacgccattc	tcctacctca	gcctntcgag	tagctaggac	120
tacagnggcc	caccactaca	cccggctaata	tttttgtatg	tttagtanan	acgggggtttc	180
accatgttag	ccaggatggt	ctcgatctcc	aggatcagtt	tcttgagtct	tttctctttt	240
gcctcttagt	canaatccta	agaacataac	caggaaacaa	atgaggcaag	caagatcctg	300
ctataaatca	aagaactact	agactcatga	aataatttta	aatgcgtgtt	aaccatgagt	360
gaaaactaga	aattgacagc	cccaattttt	ttttaagggc	anatggtact	ttacatcttg	420
ggncttaggc	ataaaaactat	ctggaacaaa	aggctangga	tcgagtcatt	ataaaggcac	480
tttatgccta	aagatttcaa	acttggagct	tttaagggaa	attgggggttc	acttanttaa	540
acaccagtng	gaat					554

<210> 8825

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8825

atattttag	gcacaattta	ttttaaaatc	cacacaagaa	acccagaaat	gcagcattat	60
cttcagacat	cacattctag	ctctgtttta	ataccacata	tgctaaaaac	cgacgccagg	120
acattctcta	aatgagttac	aaatcagttt	ctggaaagga	agtgtccat	gaaaagctta	180
tagcaagata	actcaggctt	tcagggtggc	tatggcacgt	gaattagcct	tacagtaatt	240
gtgtacatag	tatgttttagt	cattattgaa	tcaaaagttt	caggaagtac	ctttttta	300
gcatacgctg	agagaaccgt	caatatgcct	ttgttcctgc	tgagggatct	gccattctgg	360
aggtacaaat	actgcagata	gaatatcacc	gcaggactac	gtcaagttca	gagtgttcag	420
gatcatttct	atataaaact	acaattagct	gaactatggc	aaaggtcctt	gaacataaag	480
ccttcttcat	tcattggatc	ttaataagtn	gaaggcncta	ccggaaagct	gnttaaagga	540
tttaattnca	tccagttttg	att				563

<210> 8826

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8826

ccattacagn	gcacatttat	tgactctgtg	tatcttcaca	gtgtgatctt	caccacagct	60
tgcaaagngt	aaccactcag	caccttctgc	ttccttctgt	tcagtttttc	cactgcaatt	120
cttccagcat	aattttctga	tagccagtg	atgactttgg	ctttgacttg	tttctacaca	180
gnggggtccag	tcattttatt	ctggaacttg	atcagtcctt	ttccaggtat	ataagcaa	240
ctttccacac	tccaatccta	ctgcaaccac	gtatcgttga	gaaggggtga	gcactgggca	300
gacgctgaca	gctgtcacag	ccccaccac	gtccaggact	gaggagcagg	ggccaatgtt	360
gtgctcaata	cagtcacag	tggagtcgca	ctcaccacag	acaaccacct	ttttgtctcg	420
actcccagtg	aagaaatact	tgctgtcagg	actccaatca	caagaccaa	taattctact	480
gngcacagaa	gtaatttggt	gggtgaaggc	aaaaagacta	aaaactggct	tgaactaggn	540
gaaaatggga	tcccggtttt	tccaaagn				568

<210> 8827

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8827

ccagttaa	tcagttttat	tgttttccgt	tacatgttca	ctccctgttc	cttctcgccg	60
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tgctgccttc	taaagggtg	tgacattttt	gtacatcttt	tccatctttt	agtagcaagt	180
ggttgctgca	gaccagaagt	gaaccaaata	aagactcctg	ctctgtgcag	ctctcagact	240
cctgctctgt	gcagctctca	caaagatcac	agctgctttt	gtacattcca	gtaactgcat	300
gacacaaaac	ggtacctgtg	agcaggaaac	acattcacac	catgagacat	gcacagaggc	360
aggtgtccct	gagcgaagtt	gtgcagagat	ctaggcctag	gggcagtcag	ctcctgccgc	420
aacacaacct	agaaaaccaa	ggcgagaacg	gccccttgcc	ttncacancg	agggcanang	480
gcaaaagccc	tttctngna	attccaggag	gattcancca	agggtaaaag	ccccgggtct	540
ganaaaatcg	aatc					554

<210> 8828

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 8828  
gaaatgtaaa actcagttta atttcaagtt tgtatagaga atgtatgcca cagtttgtat 60  
tttataaacn caacctatct tattataaat ncaaaataag aaaaagngat ncgttagctg 120  
ttatgaaggg ngaaaacatt atataaacct caaaaggctg ctttctgcat ctgcatctat 180  
gtaatttcat ggttctntac caatttcatt tacagaaata atctctatag tcaaattatt 240  
gntcactttc atgccccaac atgggaagng gtagngaat atctgtagga atncaattta 300  
ttggctgctc ctccactcan aagtagccct gngtctgtcc agtctacact canaactttg 360  
ncttcatgag cagccagatc atagagagga gccttacaac ttcttgtatc ccacagctta 420  
acaatgttat ctaaagatcc tgaaatcagc tgctgttcat gggtagggag accattttac 480  
tgggggcacc caccngtntg tgacgttggg gnnagggacc ccaaggaccc atnttntngt 540  
ngggac 546

<210> 8829  
<211> 498  
<212> DNA  
<213> Homo sapiens

<400> 8829  
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tctacaacag ttataatgag acgattcaga ggtggtctca aagtgtttac agtgttaaaa 120  
aaattatagt aagcagtata aaattacaat ttattatggg gccaggggga ttcacaacca 180  
tccttaaaaa cattaagagc aaaccacggc caggcatggt ggctcacacc tgtaatccca 240  
gcactttggg aggctgaggt gggcagatca cttgaggtca ggagttcaac atgatgaaac 300  
cccgtctcta ctaaataatac aaaaattagc cagtcattgat gtcgtacacc tgttgtccca 360  
gctactcgga gggctgaggc atgagaatcg cttgaacctg ggaggcggac gttgcagtga 420  
gccaagatag cgccactgca ctccagcctg ggaaacagag cgagactcgg totnaaaanc 480  
aaancananc anngaaac 498

<210> 8830  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 8830  
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ccagctcatt aaaatctatg tttcaaattc cctggatttt cccaagttcc agactggtaa 120  
aaagtatttt tacatacaca tttgatgctc acattacaaa cttaatatct ataaacttga 180  
aacttgtttt gcacaagtct atggctttac tacttttcaa gacaaaagtc acatattaaa 240  
atacaaacta ctcaaaagca aatagttgtc aagaatgttg tttacaagac agatcttaca 300  
gataatacag actatattat gatttatctg tttgaaaaca gaaagtagtg tattatactg 360  
aattctggta taaggctgcgc aggaaaactt acttacaatc ctttattttc ataaggtaaa 420  
caccaaagta tttctcacat atattaccac cagatttttt ttaaaccaaa tttccggttt 480  
aaaaatcaca cactggccaa cacagnaatt cgaaatgcta ggaaaaggct agcatntgaa 540  
ggaaaacctg gcttaagcnt tctaa 565



<210> 8831  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8831  
aaacataccc tttattaaca tctaggtaat atctgtaata ttccttgctc ctcataccca 60  
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ttttggatgc atgctggggg aggaaagcat attgtttgta gtcaccctgg cgtgctaagg 180  
tatattattc cccagtaatt ctctcaaggt gggcatatgc aaaacataat ctctaaattc 240  
ttcaatacta agaaatacct ttgttttacc cctaaaatca aatgccattt tggctggata 300  
taggattcta ggattaaagc ctttttccag cagaactttg aagacattgc tccatttact 360  
tctagcatcc agtgtgtcca gtgataagtc tgctgtcaac ctgattcttg ttccttggta 420  
ggtaatttct ctctctcttc tagaagccct taattatttc tctttatcac tagaattcca 480  
aaatttcacc aagaagtgtc taggangcag tctcttttat caaattttac tangnacct 540  
cgacaagcac tggcaatttn ag 562

<210> 8832  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 8832  
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ctgcaacctc cacctactgg gttcaagcaa ttctcctgcc tcagcctctg gaggagctgg 120  
cattacaggt gccgccacca tgcccagcta atttttgtat ttttagtaaa gacagggttc 180  
cactatgtcg gtcaggctga tctcgaactt ctgacctcag gtgatccaac cgccctcggcc 240  
tcccaaagtg ctgggattac aggtgtgagc caccatgccc agccagcaaa cagttttaat 300  
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gacagtctcg ctctgttggc caggctggag tgcagtggca tgatcttgac tacttgcaac 420  
ctctgtctcc cgggctcaag caattctctc ctacacctcg agtagctggg attacagggg 480  
tgtgccactg ggcctgggta attttggatt ttagtanana tgggggttca ctatcttggc 540  
cagctgggct tga 553

<210> 8833  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 8833  
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tttgtccttg atgatttttt ttctctctgg ctacgttcag tccgactgag tgcagcgcta 120  
tgcatatgta aacatattcg tttaaagcga tcacctttaa ggtcattcgg aaaaaagcgg 180  
tccttgtttt cgcggtgtgg gtgtgggtcg taacagcagt ctattcccc cgggaggaag 240  
gctcttgggc gttggagagt cccactcggg ttgtgccaca ggacaatgtg ggcagggcgt 300  
gagcggctcg gcgggcgcgg cccgggcgtt acctcctgcc gatctcgctc tgccgcagga 360  
actggatgtt gttggcgctg tcggccagct cgggggtact ctccaccgag agtacgtagt 420

000220.0946950

accggtcgta	ccctgcacct	tgccggcgct	cagcaactgc	cgtttntcgc	ccttcgtcca	480
nagcccgcgc	cttcttgccg	tgcgcaccc	cttggtgttc	gcgcgccaag	cccgggcaac	540
cgntgcc						548

<210> 8834  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<400> 8834						
aagttgaaca	gaacatttta	tttctcagca	attctatgcg	tccaaattaa	acatgagatg	60
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gtgaggctgg	aagaggactt	agaagagtat	gaaagtcctc	taagatttta	tctaagttgc	180
cttttctggg	tgggaaagtt	taaccttagn	gactaaggcc	atcacatatg	aagaatgttt	240
aagttggagg	tggcaacgtg	aattgcaaac	agggcctgct	tcagtgactg	tgtgcctgta	300
gtcccagnta	ctcgggagtc	tgtntnaggc	caggggtgcc	agngcncnn		350

<210> 8835  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 8835						
cccttcaaaa	acttttattt	gtatcaacag	ttcctagctc	ttgacttagc	ttagagcttt	60
taaaagagca	gacaccttat	atatttgaga	ttgaaaaagt	ttctgctatt	aatcagaaat	120
aatcatttct	attttctggc	ttacccttg	gaataagcca	aaaataaaac	caaagttaca	180
tttcttgaca	gatggctaag	aaaacaatag	aaggaacatc	ctgaattcta	gagttgactc	240
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aaaagtacaa	ttgggcatct	ttccttatgt	cctgggatca	gggggtgctta	catttaacat	420
tgatcaggta	aagaggagag	gctgtgccta	aggtctgaga	aaaggcttgc	tctaagcaag	480
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<210> 8836  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 8836						
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attcangaac	attgggctac	gtgtcatttt	gcttaaagtc	agtttctaen	aacctttcga	120
tggcatttaa	ggacttaact	ggagttincaa	ttgagtgtct	actatgtgtc	ttgcacctnt	180
gaatatttaa	cgtnttacct	catttaatat	tcacaacaac	aacttatgta	ggnagtagta	240
taatctngat	tttactgaag	aggaaacaaa	ggntaatctg	gccacggtca	ccttactagt	300
gagtggttgg	aacagatatt	tgagaacagg	caacatggct	tcaaaatcta	agctcttgcc	360
taccantaa	ctactccctt	tcaacgaaaag	actagtacgt	tatttgaacc	tgaataccct	420
gaaagtaaca	agcaaatttt	ataattcctt	ttctgttggn	cagcatattn	canattggca	480
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<210> 8837  
<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 8837  
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agacttcagt acattttctaa aggggtgccca agaaaaggga aaaaatgcaa ttacaacagt 180  
tttaggggag agttatatca agtaatgcac ctaggtgcaa tttcatgcag atgtcttcaa 240  
ccactcaaac tgtttttatt agatattaga ataaaatttc ccaaattatg ttgcctttta 300  
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tattgcaact tcccaaattgg attttacaaa atactattcc atggccctaa atgtgttcct 480  
ggacttctct taccaaatgg gctaatatgg accattataa attaaatgaa gaacgctgca 540  
aatccgcag acaatttcaa gacnnttaaa 570

<210> 8838  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 8838  
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atgtgtctct gacncattta caaaaatacca gttttttaaa attttggtca aattatgagt 120  
ggttgattta aaaacttttc caagaagaag aaaagcatgg agtcgtaatt taaagaactc 180  
aataaaaact tctatttttt attttaaaat aatatacnca gngttatttt cttcaagacc 240  
gtcctgtgga tgtgaaatcc gtcttcgcgt catgtatctc ccatatccag cagttcagcc 300  
atccagctac ctttgggacc ctgctgcacc ttgngtttgc tggggagtca ctggagagtg 360  
catctctgtt cagtttcagg gcacgtotca cacatttgct gntccttatt cattgttgac 420  
acaggggata ggtgatccac tacttgctgt anaatgncct tactttcact aggaggcaga 480  
ttactgaaat agtattgggg gaccagctgc ttaaatagtt ccaggagaag attctgaggn 540  
aatccnggaa gnantggtcn 560

<210> 8839  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 8839  
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ggggtacaga aaggaataat taagacggcc tgctcttgag ctcacagtct agtaaggaag 120  
gtaaacataa acaaatcatt acaatacaac aggaaaagag ctagagcgaa gatatagaac 180  
aattgcacag aggaaagagt aactaattct gcctgaaggt aacaaggaag agatggcact 240  
tgattttgaa gtttaaggat gagtgatatt ttagcacggc agagggcaga gggggcacag 300  
ggcattccag gcagagggaa tagcatgtgc aaaggcactg aggtaaaaac atgagcatgg 360  
ttggttcaga gaatggtgtt gaagggtaca cagaggcggg ctgtaaaggg tcttgtacac 420

cacactaggá agtttgaatt ttatcctgta ggcaatggga aggcttcaag cccacatctc 480  
tccatctggt cacangntnt cntaanagnc tntgt 515

<210> 8840

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8840

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cctaattccct aaaatgcgga taatacttgc ttacagaat gtagcagcag ttgacagaga 180  
tgaaccatgt gcttggcaca ctgtagatgc tcaacaaatg gcatcatatt acttcctaga 240  
gtcgggagaa gttgtaaaat gaccagcttt cttatgctta ctcgagatgatt tattctggcc 300  
tttctcataa tggagacagc ttatcgtatt tagttgaaga aatgctgaaa attgggggtgg 360  
aattagacat tatgttttaa agttcaaaga gggccagact tgcgatgatc cagaaattag 420  
aagaaactag agctttgaga accaggaaaa ggccgattgg aaccacaaaaa gaatgaccag 480  
gaaagatcaa atttcctagg aaatgnatat acatgctgat ggcataagga naggctntgc 540  
tganaaggat tgggnatgtg aagggtaan 569

<210> 8841

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8841

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aaagtaagaa atacttagga ataaacataa aaaaactgan aatttcacac cttgaaatct 180  
acaaacatta accaaaatga ttaaaaaacat atatatacaa cccacattga tggtttggaa 240  
aatcaatat tggattata taagccaatg ngattcanat tcaacacaat acctataaaa 300  
accctatttg gtttttgtta aagaaacaaa aagcaggctg ggaaaagtga ctacagnttg 360  
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gtgctgggtt tacaggcgtg agccacacgc ctggccaat cctnttaaca taaacncttt 480  
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atggctttct ggcaa 555

<210> 8842

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8842

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

09629459.072800

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnn				568

<210> 8843  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 8843  
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ctagaacaca aaagggttaa ataagatttt ctctttttaa gatacaagaa ttttaagcttt 180  
ccttacattt aacaaacttc acagaacaga tactgcaggg gaacaagccc cccccccac 240  
cccccccagc tctaagtcag gaagcgaaca tgggcttcgc tccccaggc cagctcccct 300  
gggctccttc ccatggctgc ctccacgcag caggcagagg agggggcggg gggccctggg 360  
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gggctgcctc actgaggatg gccgtatggt ggcaagggt gtggcttgac agcantggta 480  
aacgctgggc anacctggcc ccttntgcct gggnttgcct anancaagaa anccgggtctg 540  
ggt 543

<210> 8844  
<211> 485  
<212> DNA  
<213> Homo sapiens

<400> 8844  
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tcagttttca taaagtgcaa taaacaaaat aaatagatga aaaaagcttt gaagatttat 180  
atacagtttt gaggttaaga taaattactg actatattcc tttcagcctt ttaactctgt 240  
gaaagctgta acgtacatta aaagcacatt gaactagggt aaataatgat ctttccccct 300  
tagatcaatc tagtattaag gagtatataa ttatgcaagt tcattctata acacgaggct 360  
agactaaaag gaaaattttt gngctacaga ctaaattccag atncgggtcag gtgctgagca 420  
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tanc 485

<210> 8845  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8845  
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aatctaagtt cacaaatgat catcacatga gccctcttct ccatatacac atttgttagn 120  
gngaaaaaac aattttgtac agtatttttag tagttacatg attagcaagc aacagagaag 180

tagtgaaagc	tgaagaactc	caaattgcatt	gctcatagga	caaccactca	aacacaagca	240
gctaggcaat	aaaggaaaat	ttcccatcca	gtcattgaga	aatgctaaag	gcattttatg	300
gtgacatgaa	tgcttaagtt	agtatgcaac	ctatagggca	aataaaactg	ctatataggt	360
tggttaatttt	gcattttaaat	attngtagta	tggtctaccc	atttatctaa	catttanta	420
tacataaaat	tttaagtctg	ggttctcaaa	acggtngctt	gggatttngg	tatagggggc	480
tggtatctca	aagctcattc	agtatctttn	cttctttcaa	anggttaatg	ggactggngc	540
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<210> 8846

<211> 693

<212> DNA

<213> Homo sapiens

<400> 8846

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attgttggtga	aaatgggggtg	ggggcggtgt	gtttggctgc	tgataatgaa	ggaatttagt	180
gcagccaggg	gttaggcctg	ggacctgcct	gacaggatgt	ttctcacagc	tcaggccctg	240
gtggaatttt	ccactctgac	cagtttgtaa	aatggtaggg	gtctgcaaaa	tagtgcagtt	300
tgggctaaca	ttcttatttc	ttactttagt	ataaaaagga	aaaaggcggt	cgttgatcat	360
ctggctgctt	cctgctggat	aggggcgttg	tgattagggc	ctgggttctg	gagcttccga	420
atggtttcct	cgtaggctct	ggtattagac	gtggcaaagg	tgaaatatat	tatcaatgtg	480
tttttgcatg	cttgccctgga	taaaacaatt	cagccttttg	gaaatgaanc	gggatacaag	540
gttaaataatg	catggcccaa	tcattagtaa	caggaagagg	aagatcaggg	gtcctangaa	600
gggggcaacc	cagggtatcc	atcttanaag	ggatgatcct	tgccccagga	ntcancgact	660
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<210> 8847

<211> 832

<212> DNA

<213> Homo sapiens

<400> 8847

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tgcatgtctgt	acttgagtag	tgttttattta	gtggactttg	gtaaagccct	tcatacatat	180
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cccccaaagc	tagcagttgt	gagttgtatt	tattattgaaa	cctaattgttt	taaaaatagt	360
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attctaccct	cccaaaagat	tattaatcca	gtgttcttta	gcttttttaa	atataaatgt	480
ggaaagtgtt	attaataagc	ttttttaaaa	ggcatattct	tctataacaa	gaatggcata	540
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ttcaagttgg	gatctctatc	ccaatatctt	acattcatag	cattattgag	gtagttaaaa	660
tactgaaaat	tggactccag	gttgctgggt	tctgaatgng	aatgtgaaag	gatataattct	720
cttttgagcc	tacttttccc	caaataattc	aaggtttctt	ggggtaagga	acttcccaaa	780
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<210> 8848  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 8848  
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accctattaa taggcTTTT tttttaata cacatttgta tcttgacctt ttcacttggt 180  
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tcataacaca attattcttt tacactttta acaatataac ttctcccgtt cagaataaat 360  
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tgggatttng gaaaggtttg tttaccnct cctggaattg ccttggcccc tgcaacccgc 540  
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<210> 8849  
<211> 600  
<212> DNA  
<213> Homo sapiens

<400> 8849  
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ttttgctcct taactttccc cattgtcctg tttccancc cacaggcang cagcctaatt 540  
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<210> 8850  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 8850  
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tgctagaatg ctgtttacct gtttcaacag ctcccatcaa ctaccgtac tcaactttaca 180  
tagaaataaa aacagctact attcattgag cctattttcta tatgggaatc ttagtgtcct 240  
cacacacatt aattcactca attctcccca aactctatga ggtaaactat tatgcccatt 300  
ttagactcaa atgtcaaaac catatatgca ttttgttcca ctgaccccaa gtggtaactg 360  
tgagtagtag ttctaacaat gaggcatttt ttaaaaagtc ctattaatgt ttacctataa 420  
ttaaactat aagggataaa cccatacccc cattgaacat ggtacttttt tccattttatt 480

gtctaatatg tggcaacagt aaatgaacaa tctcatcctt aaaacagggtg ttatgacttt 540  
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<210> 8851

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8851

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cgtatttgag tcagtgggtca gatggggcag ttgcgctcag ctgcagtcac tgactccgga 180  
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tatgttccct tttttggctg aaaaattcaa gtttgtgcta tataaaacac taacagttac 480  
taaagactag gaaaatttgc agganaaagn tattttaaac ttcccaataa tcctaaagga 540  
agccaattat aaaactcnaa taatgccnta cttacttata ccnctntttt t 591

<210> 8852

<211> 599

<212> DNA

<213> Homo sapiens

<400> 8852

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ccactgcctc tgcagtatca aanagaatta gtctttccac aaaacagatt ttaacagcca 180  
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tcaaatttag gatgacaaag antttccctt agttcaaaat gacatgtgtt ccagtcctaa 480  
tcccagatgt taatctancc atagtgtccc tgagccttaa tccatgtgtt tatcacatac 540  
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<210> 8853

<211> 604

<212> DNA

<213> Homo sapiens

<400> 8853

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tccgtggctc	ccgaactgtg	gcccctgcag	ggtgcaggan	gcancaccga	ngttccccta	360
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acggccacca	acacaaccgt	catcctccgt	actgttnanc	caaaaccncc	gttgaaccaa	540
aaccncccng	aaccaccaac	aaaaccgtca	tcccccnta	ctnttaacca	aaacccccctt	600
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<210> 8854

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8854

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tgtacctttt	attaatctta	attgcataat	cccaactttc	aaattttaaaa	agctcanaaa	180
aaattcctga	gcagtttaagt	tgctttataa	tctaattggt	ggggaanaan	ttcttgtttc	240
taggctaatc	ataaaaaaac	tggtaatggt	taacacttga	aanatcactt	actatgtgcc	300
aggcactgtg	ctttacctgt	attaattcat	ttaattctta	caaccacaaa	tgaaccctac	360
attcctgttt	cacaaaagaa	nggcctggtc	ttaaattcca	tctaatacta	aaatctgtgc	420
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tatancagtt	tatatttcta	ctaaatttct	ccctacacaa	atatntcccc	aatctactaa	540
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<210> 8855

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8855

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tacaggcacg	cggcaccaca	cccagctgat	ttttctatct	ttagtanaaa	tgggggttca	180
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aanaatgcgt	tttgattttc	ttttttgcat	atccaanaca	ttgcaactca	gtttctgaat	360
cggcctatta	aggttggtgc	aaaagtaata	ntggctttgc	cattaaaaat	taaaaatggc	420
aaaaaccacn	attagttttt	gcaccaacct	aacatttagg	aaaatggana	nttcccccaa	480
aggtgggaaa	ttcctgtctt	ttncatttat	gctgtctatg	gtcancacta	aaacaacagt	540
gccaccagca	ggtgctcacc	atccggtatt	tgttgggtna	atcaaggaat	aa	592

<210> 8856

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8856

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ccacagacac	atactatcat	gctcagctac	ttttacttct	ttctaaaggt	ctcactctgc	180
tgcccaggct	ggtctcgaaa	ttctagccac	aagcaatcct	ccagcctgag	cctcccaagg	240
tcctgggatt	tataggcgtg	agtcaccaca	cctggcaaaa	agcaactttt	tgtatatgct	300
taccagctaa	taacatcttg	tcatgcttaa	atatctatag	tttcttttat	cataaaacaa	360
atcacaattt	tatcatgaaa	acaaaccaca	aacaaatata	agactacgtt	ataaaaagtga	420
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tccaaaatgc	caagaaaata	aaatg				565

<210> 8857

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8857

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attgtacaac	cataatgcaa	gttatgtttt	gcatacaaaa	tatgtttctt	acatcaaagc	180
acatgttaac	aaaaacaagt	tctagaaagc	atataccctc	taagactaat	gaaaacgtct	240
ttagcaggga	attaaaaaaa	aattaacatt	catttgataa	atattttgta	gaacttgaaa	300
tgaggatttt	atctctgagt	attttttgta	gtattccctt	tgtccagttt	ttgcagaaga	360
atggcaaaca	cttattttcta	aatgaaaata	gccctggaaa	caccagtggt	aattttttca	420
aagtaaatgt	ctagccttaa	cttgaagtgc	aagaagttgt	agctacatac	tacattagta	480
aatctgaaa	taaaattiatn	ccngttttaa	cccctccnca	gttcctaaaa	aaatnttatn	540
ggananaatt	ttct					554

<210> 8858

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8858

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tttatataca	agtcttaaaa	cacaacaatc	atgaacaatg	cacaccgttc	aatgtagtta	180
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aataagctca	ctatgagtag	aataaaacgt	gtaagtttca	atcagtacta	caagaaagca	360
tggtttaaat	ttgagttcca	tacaattcta	cataactcta	ttttgttact	ataacanaaa	420
tacagtgtnt	agttttgggc	aanaattaat	gaattactgg	ttttataatt	aantgaaaan	480
aacagttttt	ggtgccatgt	taaaacnaaa	ctgnatttct	ancttacaac	cttaaaaatg	540
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<210> 8859

<211> 379

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 8859

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gtttcctccc	tgatgccctc	tttggtcact	ntgnnaatcc	gggagtgcgt	cccngtgta	180
canatctctc	tcagccgcag	aaatgaagac	atctttcacc	accgcgatgg	ctctgtccaa	240
ggacagcgga	acatgctcca	cattctgggt	gttcttaaaa	ccaaccnggt	tgtcaancac	300
gggctgtanc	atggcacttg	ctgancctcc	agccttgaag	gantctctct	ggtaanacct	360
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<210> 8860

<211> 601

<212> DNA

<213> Homo sapiens

<400> 8860

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 8861

<211> 613

<212> DNA

<213> Homo sapiens

<400> 8861

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cactctgtga	tgtttacagg	attgctgtcc	atgcaagggtg	atcataggca	ttatttatga	180
agccttaaga	tccagaagtg	ttgttactac	caaacctctg	attaacactg	tgaagtaagt	240
gttttggaag	gcagttccat	gagttggcta	acatttcttt	aaagcaaatg	actgcttcta	300
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cagctctgtg	atggacaagc	aagttgttgg	cacatccacc	aaaaacaatt	acttctcctt	420
catcgctggc	acaagctgtg	tgccataacc	ttggtttttc	ggtatatgga	tgattaaatt	480
gtatcccatt	ccatttttac	tgatgccagt	aagttcccag	gcatcnactt	aatggctgtt	540
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<210> 8862

<211> 160

<212> DNA  
<213> Homo sapiens

<400> 8862  
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cgagtaacta gnactacang catgcncnan cattcccacn 160

<210> 8863  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 8863  
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gccacataaa gatgatgact ttgatgtcct ggctgcctc ctgtaacaat gtgaggctgt 180  
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agttatgggt gcagggaagt cgccatctgc caatgggcac canantgtca ctgtactgga 420  
aggggaaaaa gaatgggctg gatnaaatcc aagggcctct ctgcccattg tcaaagtcag 480  
taactgctct gcctgccggc tcacaatgca tgccnanitt taatnacncc cccccaaaat 540  
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<210> 8864  
<211> 495  
<212> DNA  
<213> Homo sapiens

<400> 8864  
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aagtatgata caggacctaa gttttcagtg gcatatatac tattaacaca tgttctgaaa 180  
tctggtaggt cacatcagtc ctgaattaac ttttaataat aataataata aaaaaactaa 240  
ctgagcttta tactttttct atgccactat agctttcttt cacctcattt tttaaatgtc 300  
gatcttcact ttatgccgtt ctcagtattc ttccaaaaat cttcgaacag tagtcctaca 360  
acgcaaagtt tggggaaaaa tgataattag acaacatgtn taaggccaat ttttatgana 420  
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ttttaattat caang 495

<210> 8865  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 8865  
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gggtttcacc	atgttggcca	ggatggtctc	gaactctcaa	cctcataatc	cgctgcctt	240
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ttgtatataa	ctggaattaa	tattcattct	caaagcatat	atgctacaaa	tggcaaaaaa	420
ttacaaactt	gtaaatagcc	acctatctca	aaaactgtta	acttgtggca	antaaaaaaa	480
ttacccgctt	catttgggtt	ttaatccatt	tagtcagcac	attttcatca	ancacctact	540
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<210> 8866

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8866

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ttggctaaca	tttttagcagg	taataacccc	atgcttgtaa	gcactttaca	tgaattaact	180
cacttaaatg	cagagcaact	ctatgaagta	ggtacttttt	tttatagtca	tagagagggt	240
aagtaacttg	tccaaagtaa	tacagagtat	tacctgggaa	ctagaatttg	aattgagaga	300
gtgttattaa	tctgtgcaat	taaccactac	accatacctc	agcaaaaaat	atctactgta	360
ttaagcctgg	aatagaagac	acaatcaata	aaatttanca	tgagggaagg	ggcaagatgg	420
ccgactagag	gcagccagat	agacagggat	gactggccac	ttctaaaagt	ctccaaaagg	480
aaggccnttg	aaanacccaa	ccncttctcc	atngcattgc	tctctcctga	cttgggttagg	540
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<210> 8867

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8867

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aaatctcttt	aatgttttagc	ttgatagaag	gcagctgaat	taccatacct	gcttctgcat	180
tcaacttgct	gcaatacatg	ttgtaaaacc	tggctccaca	caggtagata	tttggaaaaa	240
gaggggtatt	taatagcttt	ttcagatgat	agtgtgcttt	tatattatac	caaacattga	300
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atgacattat	tggagcacia	taccaaaaac	taatcaggtc	tctgtaccat	ggttcttaca	420
aatttaagat	gagccttcta	gaagccggag	tcatattccc	ttactttcct	gccccaaagca	480
ccatttcctgt	ttcctcccca	aggttcagct	acagggcaaa	aaaaaaaaat	ntccggccnc	540
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<210> 8868

<211> 539

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 8868

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ttttgcatct	taggacacaa	acagttagaa	tcaaggcaat	gatatgatgg	caaattctgt	180
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ccatttgtgg	gcaaaaaaag	gggggaggaa	anaaagttta	aaatgggtgta	actcgttagt	300
ttgcaacaac	atttaaaatt	ttctttatac	aacaaacaac	tctgtaagcc	caataccttg	360
gttacagtat	gcatagttac	tgatttcggc	tttaagggtac	aacagttaaa	cattaacaca	420
gtcacgagag	ancagaaaca	tatggagcca	cttgatggga	ttacaaaaaa	ttattaccta	480
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<210> 8869

<211> 511

<212> DNA

<213> Homo sapiens

<400> 8869

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gtgtttacac	acagcccttc	attatatatta	gagataaaac	ctatttcttg	ttcttgcatt	180
cacattaagt	catgatgtaa	gaatatccta	cttggttcct	tcagagaatt	cttgaaaagt	240
tcgattttaca	gaagactgct	atcatggatg	ttctttaaact	cctcagancg	gcggcagcgc	300
anggtggcgg	gcgantaagc	ccatctccca	ncagcggcga	cagcagcctc	tttctgtaca	360
tctgcttgta	cttccaacct	gttaaaacag	tttaccatgg	cacttcctga	cagactcccc	420
gttatactgg	ctccagctaa	tgccatgggtg	ctgggcgttt	cactcnagtt	gtctccgant	480
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<210> 8870

<211> 489

<212> DNA

<213> Homo sapiens

<400> 8870

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tcctttggtc	actggganat	cctttggggg	ctgggaggtc	cttctgtccc	atgctaaagg	180
aaaagcttca	caagggtann	agccacanaa	ccctcngcaa	gaaaggccgg	tcaggganaa	240
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ggatgccgca	ctggagaccg	atggggacac	tctaattgtg	caagaaggag	gaccttcctt	360
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atanggccaa	ctctccctgc	aaagcaacaa	atgtggcttc	tatcnggaan	gaaaantatc	480
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<210> 8871

<211> 586

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 8871

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aagcttacaa	tcttctcaga	ttagagtgc	cagatctggg	aatatcttct	gttagaaata	180
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gagaaagaat	ttatagcttt	aagtattttc	ttcacaagta	tatgaaat	atgaatgaga	300
tatggtataa	tcataaatac	ctgtgcaatg	ttatcatgtt	ctcgactata	aaatggctgt	360
gtattttcat	tataagcaag	caaaacatgt	gacttcagcc	tttctcaaga	ttttagataa	420
actatattta	agctcacatt	aaataccata	gctagtttta	agatacccat	ttcttttttt	480
ctaaataaat	atgttgttca	gggttttttt	gaaattcctg	aagtnaatcn	cncccaagtt	540
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<210> 8872

<211> 552

<212> DNA

<213> Homo sapiens

<400> 8872

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<210> 8873

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8873

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cccttccaaa	acatgaagtt	aacttggagt	ttttctgtga	tatgacaaac	taggcataat	300
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gctttattgt	gaaagaatcc	agagatctca	cactgaaaaa	aatactaaca	cagctcatat	420
ataaattact	tatctataag	gaacaattat	agaaggaatc	taaatggggc	aatttttaaca	480
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tnangn						546

<210> 8874

<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 8874

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tatccagttc ttagtttccc aggtgggtgg ggggtggcctt cagtgcgtgg cacggagggg   420
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<210> 8875  
<211> 499  
<212> DNA  
<213> Homo sapiens

<400> 8875

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caatatggca aaaccctgtc tctactaaaa atacaaattt tagcagggtta tagtggtagc   240
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<210> 8876  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 8876

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tgactttctg tatgaccctc aaccagcccc tgcccctctc tggtttctta tctataaaac   180
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<210> 8877  
<211> 544  
<212> DNA  
<213> Homo sapiens

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<210> 8878  
<211> 578  
<212> DNA  
<213> Homo sapiens

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anggcaatgg ntccctcaatt ttttccaaaa actccagtat tgnactggca nccnggataa 480  
taaaatttct taaaggaat aatngccaaa aaaatatatt tccnggatta cctgggttaac 540  
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<210> 8879  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 8879  
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ctcccccagc cttcctgtcc cttggagggg cagttcagct gggttcttgt tcagggtcag 180  
gcaggcagtt aaggctggac ggggtggtgcc cgtaacaatg tgccctcatgg cctgcagctg 240  
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cgggacgtcc cgaggtgcca caggaaagag catggggccac agcagccagc cgccctgtca 360  
gctccagggc acgggtgcttg gactcgcaac ggctggcggt tgaaggtaaa gttcaccttg 420  
aaaggtcaac ccatccacaa agcggntcan gangctcatg gaaaagctca acttgacacc 480

ggnccaattc accttggccc aaaggcccct atttttgaan ggggncctcc gggggggntt 540  
cccaggacaa aanggccaac aagtgtgcc cct 573

<210> 8880  
<211> 352  
<212> DNA  
<213> Homo sapiens

<400> 8880  
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canagaacat acaaagcctg cgtgaagggt gtgagctgct cccaccttca caggtnntggg 180  
ggtcctaaac ccctggagcc atggtcagtc ctgtgcccaa gcctntnttt ttgcaggccc 240  
tgaaactttc actacagntc anacactgnt gcacgggccc gggaggggaag ggggtgcttc 300  
cgggnaactg ttcacagccc cttaacttan cctccctggn gaccanggca ca 352

<210> 8881  
<211> 453  
<212> DNA  
<213> Homo sapiens

<400> 8881  
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taaactttta gaattagaaa taagtgactt ttatttttta accaagaata atctaagtta 120  
tggcagcatg ttcaatgaaa ggtaagtccg gcacaatttt tctatatctg tttctcagat 180  
aatcaggaac atcatccaag ctttacatta cgataccata atgaccctna gaacacaagt 240  
tccattaagt agaaatgaag catcatatgt tttctttttt aggaaagacc ccccttttg 300  
ttgtatagac atacccttaa taatcttact ctactgtaca aataactttt caccacaag 360  
agctgcctca agtaactttc attttggaaa gctatcaagg cntgagacag agtancaaaa 420  
tgccactntg gactttgnat nttggnntt caa 453

<210> 8882  
<211> 540  
<212> DNA  
<213> Homo sapiens

<400> 8882  
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aaactagttc tttcaaaaag agctctgaat tctgtctctg gttagaaagt gtgaacaatt 120  
ctcagaactt gggacatgat ttttcttctc tctcacttct tataagcaga tgcccctttt 180  
cagggcattt tcaggttgca caggcagaac taagttagaa atacggctcc agaggccatt 240  
cagtttgtct gggttccatat gattgttaga gttgggtgtg ttagaattgg tgaacttgac 300  
tttaagaaaa tctcttactt tttcttcaac ttcttttagg cctagacttg ttccaagtgt 360  
ctcttcctcc aataagacag tcaggactaa ggctacatct ttgaaggccg cgttttcatg 420  
gtcacaatat ttgtagaaga tcaaagtaga gcctgagctt ancactgaan ggtgcttata 480  
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<210> 8883

<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 8883

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gaagctgcta	gaaaaagaca	acatgctact	ttaaagccaa	gaggggcccag	tctcccattc	180
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tgtttagaca	cattttcaaa	tgtcacacca	atcaataata	ataaggaatg	gattttatct	300
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ttcaggagaa	agctattgag	accaatatgc	tttggttatc	taataagggt	gggaatgact	420
tataatggct	atttactcca	ggcaaagaga	aaaatncaac	agaacntagg	atcttggatt	480
tcaacgtagt	tctcctccat	gggcatttct	ttggccgtta	aggtcaatgc	caactgggcc	540
cccagtgaac	atgtcccccg	gncctg				566

<210> 8884  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 8884

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gacagccaga	tatccaagat	cggatcagc	cagcttccta	aaattctcct	cttttttttt	180
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agatttggtg	ttaacaaaaa	tgtattttga	aagcaggatt	tcaattttct	tatattgaat	300
ggcaaagggt	ccatgcacct	ggctatcttc	atttctgaaa	tgaatgcttt	cattttattc	360
tctccagcta	ccttctccct	ttctttcctt	tccaccccca	ttgcctcctt	tcagtggcct	420
tctttttctc	cttattcttt	cactcctttc	tctctcacag	caaaatgttc	tggaggatgt	480
nantgntnaa	acngntanct	cc				502

<210> 8885  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 8885

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cacaggaagg	aaactgattg	tccattcttt	gccaggaag	tctcggtact	ttatagattc	180
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ctttttatgc	tagggacgtg	gagatgttaa	aacgacaaca	aaaaatatat	ataaaaaacag	300
gaatgaaatc	tgtgagagaa	tatttttggt	tctaaagacg	ggtgcattcc	gtttgtcttc	360
gccggaatcc	cttgctggag	accacacgag	cagtgcattt	gcacggagag	gggcagcttt	420
tgggttccgc	cgccgtcact	gaaaccaccg	gaaggcggtt	cccgtcggaa	gcatnacctt	480
ntncagaaca	ncggaaggct	tctttttggg	ttcctcacat	ttctgaattt	gcaaattctga	540
tggccagctt	tnnatccn					558

<210> 8886  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 8886  
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tgcaacctcc gcctctcagg ttcaggatgat tctcctgcct cagcctccca agtagctggg 120  
actacagggtg cctgccacca ctcttggtta attttttgta ttttttagtag agacgaagt 180  
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ctttaactct gttgggatgc cattcgtggg caaagctaga tttgggacaa gttgccacgc 360  
tctgctagga agagtcagtc ctccggggga aagtttcttt tcaccttcgg gatcccaagg 420  
cttncctgggt tgactcaagg atttatcgca ncctggatct ncangaaatn cctttgggcc 480  
tcttggtcng gccagggttg ggctnggtg 509

<210> 8887  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 8887  
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caaactgaca gttggaactc ctgactttct ccattgcttc ctccagaagca aaatccttca 240  
ccatgtgata taaagtagaa tgaaactcag tttcttcttt aagngcttca naaaatgcct 300  
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aattaggatt ctccagtagat tcttcaataa ggggttccct taccttaaat accacttttg 420  
nagaattacn tagtaggggtc ccttggttcc anccaatgca aaagccgaac cttattingg 480  
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<210> 8888  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 8888  
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gccagcacat ccagctaatt tttaaatttt aatgtagaga cgaggtctcg ctatgttacc 180  
caggccagtc tcggactcct gggctcaagc aatcctcctg ctttggcctc ccgaagtgt 240  
ggggtgacag gaattaacat ttttgattta acttttgttt tggcagattc caaactaaag 300  
acaacatgtt ctgacatcaa gaagtgccca ggccttccct acagggaaga attctgtgga 360  
aactatgttc aaagaaaatc aagcctaaga gattacaggt ttcaacagac tggccttcac 420  
ttctactagt tcaagaattg aatcctgttg aaaaggacag ttantgata tgggggaaat 480  
ggaatncncc taaatggaaa agccttntt ggaaaaaatt taaattntaa agtccaaatt 540

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cn

542

<210> 8889  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 8889  
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aataatcaca gggtaaagg ggtatccatc ccctcaagca tttattcttt gtgttacaaa 120  
caatgcaatt atgctcttta tttttaaaatt gaggctggac acggtagctc acccatgtaa 180  
ttccagcact ttgggtggct aaggcaagcg tattgcttgt gctcaggagt ttgagaccag 240  
cctgggcaat gagacaaaac cccgtctcta caaaaaaata caaaaaaatt agcctgggtgt 300  
ggtggcacac accccgcggn cccagctact cgggaaggct gangcaggag aatcaccoga 360  
accaggaag ccggangttg cagttagcca agatcacgcc attgcattnc ancctgggca 420  
acaagcgca aacttcatct taagaaccaa aaaaaatctt gcaaattctgc caatcgca 480  
tggtaccct atcttctctt ggttnataag gccctgggac ttcctttgga ata 533

<210> 8890  
<211> 382  
<212> DNA  
<213> Homo sapiens

<400> 8890  
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aaacttcaat ggctaataatg aaggctctgt attaaaaaca aaacaacaaa aaacggtaaa 180  
attttatcaa gagacataag taaaacgaca aacataacag tccctaaaca ggaagacaca 240  
gtgctgttaa aatgacaatt atgtttcagt tatcaattga atgcaatttc aaacaaaaaac 300  
caagcttagt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
tttttttttt ntnntnnnt nn 382

<210> 8891  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 8891  
gaggagagct tttctacttt attacaaaga gaagaagcct ttatgtggctc agaaaatata 60  
agattgatct ttttttctct tcctatgaaa cgctgctgtt caaacagcca gagtgaattg 120  
tctcagttca cttcttttaa gtcccatcac attcacttgg gtatggatgt ccttggctgc 180  
tgaaaatctg gcccttttag tgcacagggc gacaaagtcc cctgaccagc agttccagaa 240  
tgtcccattt tcatatattg catccatgca cacctcctaa aaatgaggta cagcagggca 300  
aacattttcc aaaatagatg tcatatatat aatatataca cattccgtac atacatacct 360  
ttattcatgt gatgtccaaa aatttaaaaa aaatgtccac gtttattaca aaatcgtagc 420  
aagactggac aggtggtttg ctcatctctg aaaggatgaa gctcaantaa taccacaaacc 480  
ctgggaaaac catccagaga attgnnggca atatctttct ttttaaccag gcaggatatt 540  
cttgcatata gt 552

009240.69462960

<210> 8892  
<211> 523  
<212> DNA  
<213> Homo sapiens

<400> 8892  
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gtggggacnc gtcagtgtac aatacattca tgtccaggat aaggngcata cnccaggatt 120  
tatacnoggg ggcagcggct ataggcacga tgatacaaaa tataaagtat atttccatct 180  
atataaatac ncagaaaagcg tgtgttccac gtggttgggg gtggccgaca gtgtaggacg 240  
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caggctccca tntagnggcc cctgcgtgtg tcccaccacc tntccatgc cgtcatctcg 360  
atgcccactg aagttgtcgt aggagtccca gcggatgaag ggggtcanna ggtgttatag 420  
tcacaagac acgcttgggc ccgttttcca agngcttcat gccttgaatt ttctttgggc 480  
ccttaagaaa aatccaactt ccactttggc catacttttg gga 523

<210> 8893  
<211> 471  
<212> DNA  
<213> Homo sapiens

<400> 8893  
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tctttttttt cctgtaatit ggaagtgtc ttgatatgt gaaatgtctg cactgccaca 180  
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atggtgcaga tgtcttctgn atccttccag aaaaccattt gaggagtgc cttttgcaaa 420  
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<210> 8894  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 8894  
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ggtgcacgcc accacgccc gctaattttc gtagtttttag taaagacagg gtttcacat 180  
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tgagcctgga atcttgacca atttgtnggg caaanctta aggaaccctg gcccaanccn 480  
ccggcccttt naccggaggg cccatttcc ctggttanaa aantttccc a 531

09629469.072300

<210> 8895  
<211> 419  
<212> DNA  
<213> Homo sapiens

<400> 8895  
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catgtcccgg cgggcagtgcc ccaggcccag ttgtat tttt tagcanactg gntgcactat 360  
aaatagnggc angcctgtcc tacctgcatt ttgcaattnt tncgaacngg taatgctgg 419

<210> 8896  
<211> 425  
<212> DNA  
<213> Homo sapiens

<400> 8896  
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ggcccttagc catcaccacc ctctaattct agccctgcgg gagggaggga gggaatgtca 240  
gaggtgggaa agaactcaac gggaatgagg aagagacttt gtaaaactcag aaccagggtta 300  
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nanag 425

<210> 8897  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 8897  
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at tttgtcca tctgaaaaaa ttttctacat ccactgttaa tacggaatgc ttgacaatct 180  
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aaaggcctaa agagaaattt gtgacangga gntactgnca ntagggatat tttctaacct 480  
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<210> 8898  
<211> 352  
<212> DNA

<213> Homo sapiens

<400> 8898

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cctctgatcc	agctgcagcc	tcccataana	agttcactnt	taatttcatg	tcccatgctt	180
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ggtatcctgg	caagatat	cctntgaaat	agtaaactg	accttanaag	ttactgtcta	300
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<210> 8899

<211> 467

<212> DNA

<213> Homo sapiens

<400> 8899

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tgtgatctgg	cgtggtgtca	caggaggtct	ggggacagca	gcaaagacct	ggaccgggtg	180
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gagaggacag	gaggtgcagg	gctagagttg	agaatgaaac	tagggtgctg	ttgcccccaa	360
aggtaccttc	agtcctnta	ccacatccan	ttagaaagtc	ttgacccttg	gacaggcana	420
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<210> 8900

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8900

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cctaactttt	agtttccatt	tcaaagtgtg	ctgtaaccac	taaaacacta	gtgggttttac	180
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acacttctct	ttccatgtct	tatgattaac	ctgtcaattc	agtgcattgt	atggtcatat	360
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ggactgggnat	tcctcatcag	tggactcttc	tctgnttctg	gnaagggtag	ccatgctggt	540
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<210> 8901

<211> 533

<212> DNA

<213> Homo sapiens

<400> 8901



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catagtcttt	ctgaacacag	aatggcagtg	gccagcattg	tccattatct	atgttccgct	300
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atagctgaat	gaaaatgggt	attctccctt	ggctttggag	gccatcggtt	cctactccca	480
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<210> 8902

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8902

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<210> 8903

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8903

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nntgg						545

<210> 8904

<211> 548

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 8904

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gtgtataaca	ctgtttgggtg	agtgcattg	gataaaaaga	aggaggagta	tttaaggtag	360
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cctggcnt						548

<210> 8905

<211> 263

<212> DNA

<213> Homo sapiens

<400> 8905

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anccgatgat	ncattaccct	tttcccatag	gtgtgagtgg	cggctctgaat	ggagaagttc	180
aatagttcng	attgcagatc	ctatgcanaa	gaganaataa	ggaaaataac	cnnngnctcc	240
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<210> 8906

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8906

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aaatccaaac	aaatcttctg	ttcaccggga	aaatactaata	aaaaatacac	tttctaaaaa	180
gaaattaaga	aacactaggg	aacacctaat	gtaacagaaa	gtagttcacg	tttggttaata	240
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tggatgaaaa	tataaatgaa	acatcagttc	actcttggct	tcacagggtg	cacagcttag	360
gttataatgc	acacaagttt	tataaggcct	aatctaacaa	gggcttggaa	agtcttacct	420
cagtcagaat	gacctttgat	ggggttataa	cggngtttgg	tggtttgncc	cctcgttca	480
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<210> 8907

<211> 343

<212> DNA

<213> Homo sapiens

<400> 8907

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tttgtgcaga	tcttgctgtg	agggctcctg	gatcaggctt	gaggccacaa	agctgaatcc	180
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ggtgcacagg	gcgtinactgg	cttcgcgctc	cgagaagaat	ctctgccgga	ggatncggtc	300
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<210> 8908  
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 <212> DNA  
 <213> Homo sapiens

<400> 8908	
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agtgcccttg	acatggcccg
ggctttcanc	accccaaccc
gngaggnc	

<210> 8909  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 8909	
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tctcccctca	aatattttata
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anggcaaaac	aaaaacacaa
ctcaagtagc	tgaatcacct
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acacccttt	

<210> 8910  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<400> 8910	
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cccaaatgc	tgaggattata

09629469.072300

tggcccactc	attcccaaag	ggcgctgtac	ccaggcaaaa	tactcatata	tgcaactaga	360
aatactgnct	agagttttaca	ctcatttccta	ttcaaaaaaa	ttttnttttaa	agttcagntg	420
aaatcattca	gggnnttcggn	ntggcttcta	ganggtt			457

<210> 8911  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<400> 8911						
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caatgtgcct	ggccagtttt	taattttttt	ttttttttga	gccggagtct	cgctctgtca	180
cccaggctgg	agtgcagtag	tgcaatctcg	gctcactgca	agctccgcct	cccaggttca	240
cgctattctc	ctgcctcagc	ctcccagagta	gctaggacta	caggtgcccc	ccaccacgcc	300
cggctaattt	tttgtatttt	tagtagagac	agggtttcac	tgtgttagcc	aggatgggtcc	360
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ggggtgagcc	atcgngccc	gccccttttg	attctttacn	agaatattgc	tgaagataac	480
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<210> 8912  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 8912						
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ctcctgcctc	agcctcctga	gtagctaaga	ctacaggtgc	catccaccac	gccccactaa	180
ttttttgtat	tttttttttt	ttagaagaga	tagggtttcc	ctatgtttac	caggttggtc	240
tcgaactcct	cacctcgtga	tctgcccacc	ttggcctccc	aaagtgctgg	gattacaggc	300
gcgagccact	gcactcgacc	gccctgagct	ttntttcctg	caactagagg	gtctgatctg	360
tctgcttggt	aagaaactgc	acaacttcca	aaccatcagg	gtaaggncgn	gtgtgtcgtc	420
ttgagcattt	ncntaaatng	taaacatnac	acgtaaagtt	cacagnccaa	attttcctgc	480
agcttt						486

<210> 8913  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<400> 8913						
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attggcacc	tgactctcaa	actctcatct	ccaccaacaa	tgtcttactg	tttgtaatca	180
ccaaaattat	ctgttttttc	cgggggttgaa	attgtagaaa	gcactcaaaa	ttaggatcat	240
atttcaatgt	gtgtaggtga	actaactgcc	ccaaagacct	acttaattaa	actacatgcc	300

003240 6946296

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ctttcacaga	tnactanat	gnatcatgtt	accctntaat	aaaccattga	aaccggatct	480
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<210> 8914  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 8914						
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tacaggcgcc	tgccacctca	cccgccaat	ttttgtatt	tttagtagag	atgggttttc	180
accacattag	ccaggatggg	ctcaatctcc	tgacctgtg	atccgtccac	ctggcctcc	240
caaagtgtc	ggattacagg	cgtactgccc	ccgaccatt	ttaaccattt	ttaagtgtac	300
aatccagtgg	gtatcagtta	cattcataat	ggctgggtaca	accaacacta	ccatctattt	360
ccaaactttt	tcattatcca	aatagaactt	ngttcctatt	aagaaattaa	ctggccaatt	420
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<210> 8915  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 8915						
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tttagcaat	actgagactt	ctgaccttta	aacaaagtat	atctctccga	ttatttaggt	180
cttctttaat	ttatttcagc	aatgttttgt	agtttttagt	gtacaggctt	tacacttatt	240
ttgtcagatt	taccataag	tatttctttc	tttttttttg	agacagagtc	tcagtttgtt	300
ccccaggctg	gagtacagt	gttcaatctc	agctccctgc	aacctctgca	tcccaggttc	360
aagtgattgt	tgtgtctcag	cctcccaagt	agctgggatt	atagggacag	gccaccatgc	420
ccagctaatt	ttttggattt	ttagtagaag	ccaaggnttt	gcccgggtgt	caggaagggc	480
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<210> 8916  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 8916						
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<210> 8917  
<211> 550  
<212> DNA  
<213> Homo sapiens

<400> 8917  
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tcccgtcaca caggtactat aaagcgtagt ctgcaaaata ataacatcaa gaggtttttt 180  
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tgcncctang 550

<210> 8918  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 8918  
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nnnnnnnnnn n 551

<210> 8919  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 8919  
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ctcagngatt ttttaaaaat gggaatctga atgcctttta ggcagttttc cttaagnccc 540  
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<210> 8920

<211> 379

<212> DNA

<213> Homo sapiens

<400> 8920

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gccgnacaga aacagacacg cgccggcatg cggccaccgc cagcctnagg gccaggagcc 180  
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caggccccng tagnannac 379

<210> 8921

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8921

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gggattacag aggaaggagt cagtaaaactt acaaagagat caatagaaat tatctaactt 180  
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<210> 8922

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8922

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ttacaggcat gtgccgccac acccggctaa ttttgtattt ttgtttacca gagatgggggt 180  
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ggccaacacg ggcattatng cctgggcnaa canggacctg tgcttcccgg ggacaccatt 540  
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<210> 8923  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 8923  
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<210> 8924  
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<212> DNA  
<213> Homo sapiens

<400> 8924  
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<210> 8925  
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<212> DNA  
<213> Homo sapiens

<400> 8925  
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atcagaataa	acacaattat	cctacttacc	ttaatcacac	tccaatatg	gttctgttga	360
attaagagat	ctgttagttc	tgcaagtgtc	acagggagcc	tttagaaaaa	gctaaaagga	420
ggaaaaaatt	attttaaatt	aagatcaaag	catgattcta	atacttcaaa	tcctattttc	480
aaatccaanc	atgaaattct	gnggcttaag	atgatgatct	agaaaagcaa	ccccagangg	540
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<210> 8926

<211> 459

<212> DNA

<213> Homo sapiens

<400> 8926

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tagtattata	tgctctgaaa	agagaatggc	tgataggtta	cccacttatg	tgactgctta	240
ctagcaggca	gccttactgn	atgcctcatg	gaatggaggc	aaaaagccag	ggaaagggtg	300
gaggggagaa	ggaagagAAC	tgtatnaaac	ccagggtaaa	caaatgagtg	gggcagaatt	360
nccgagagag	gactctaaag	tcttttgnnt	ccttgaaagt	ctaaaatnaa	ccttaagggt	420
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<210> 8927

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8927

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agatttgtat	ctctgtatgg	aactgatttt	caaatggaca	gaaatgggtc	ttgatctttc	180
tgaaccactt	gtcttcaaat	tcttctgagg	atacagtcac	caaggcagtc	agggctacgg	240
agccaacaca	cttcacctct	gggtgaactt	catcttttat	tttttctggg	atatctttct	300
ccataacctc	agctatcaac	agcaaagtgt	cttctttgaa	gctgaaccct	ttcattttat	360
cttcaatttc	ctgctgagtc	cttaagttcc	tctccaaagc	aaacgatgtt	tgctgagggt	420
gggtaaactg	aagcagaagc	ctggttcgta	taaaagaggc	catgctttag	ctgagttctt	480
atcaacactg	nttctctctt	ttctgccata	cagttttgga	tatttgcaaa	agcnttctna	540
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<210> 8928

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8928

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aaggctataa	accacagaga	ttttcaagta	ccactcagtg	ttcaggaagc	tgaacattaa	180
ttacaagtgc	ttcttgaaag	tacaagggtg	aggatcttcc	tggaagtact	attggttaga	240

taaaatctct	cctggtggca	gtgcctctaa	tcagagtctg	gggaatccaa	atgagacgtg	300
gcaatcaaga	ataagtacaa	taaaagtcca	aaaaggcttc	aaaatttcca	tctggaggaa	360
gccaagtgtc	ataaggagac	tcaaactggg	tcaggtacag	agaatggtaa	aagcagcatt	420
ctaaacctag	ccaagagcca	tttgctgtac	actcagccgc	aaaatgtgca	tnaagactct	480
gtttggganc	tanaaattgt	ttcaggccag	cccttttaaa	aggtccccc	ggctantggc	540
atntttttgg	cnctngctaa	aaa				563

<210> 8929

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8929

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tatgtatgtg	tatgccagca	gtttatacta	atatttttat	ggcttagaat	attatctcac	180
tttacagtga	aggaggcata	gtattcagga	ttcacaataa	cctaccaaag	taaactgtcc	240
aaggagtttg	ttgtctccag	ccatctctct	ttcacctga	cacacttta	tttccacttg	300
cgtttgacca	tcagcggcag	tagagaatac	ctagggaaga	agaaaccctc	ctgggttgtc	360
aatgtgatta	acctactcca	tttctataga	aaaaatgaaa	gccaaagggtt	tacattccaa	420
gactggaaga	ctcctaattt	accgnatgtt	cagaacaaan	gctgatgtct	ttatagggaa	480
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<210> 8930

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8930

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aggatTTTTg	ataggaaggc	ctcagtgcct	tcgggatacg	cccttgttta	cactgactac	120
actgacaaca	aagtgggtatt	agagtgttac	agggttacga	agaatacctt	taattatcaa	180
ttataggttt	caaatttacc	ttggctttta	aagggaatagg	gtatactgtt	tttttcttaa	240
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tggtctttcc	ttgcctctgc	caacccgctt	atgctgctgg	tctcttaact	actggggcng	480
ggaaaggggt	ctaaaaacca	nctggaactg	nctatgangg	naactggnct	gggtgncttg	540
gg						542

<210> 8931

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8931

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agagcccagc	agaacacggg	gacgggggaag	ggtaaagagg	ggaaaccgac	agagtcctga	120

ggtcatcccg	ggaggaaggg	agactacttc	cagaagcagc	agcacaaagg	gctctgccga	180
gactntgcgg	aggggggtcca	gggtactggg	ggtggagggg	tcccctcttg	cagtgtgggg	240
ttactgtttg	ggtaaagcga	agtcccaggc	agtttcctgt	gcacatttcc	acatggcctg	300
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gcaaacacca	cattacacac	cttgggtctga	aaactccact	ttagcccttg	tcctggccac	480
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<210> 8932

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8932

gagatggagt	ctcactctgc	tgcccaggct	ggagtgcagt	ggcgccatct	cggctcactg	60
caacctccgc	ctcctaggtt	caagcgattc	tcctgcctca	gcctccccag	tagctggggg	120
tacaggcatg	cgctaccacg	cccggcta	ttttgtattt	ttagtagagg	tggggtttcg	180
ccatgttggc	caggctgggtc	tcaaaccctt	gacctcaggt	gatctaccca	cctcagcctc	240
tcaaagtgtc	aggattacag	gcatgagcca	ccacgcctga	cccactgtac	gctttttaca	300
agcagcgtgc	ttttcttttt	ctttttttta	aagacagggt	ctcactctgt	cacccagggt	360
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tcctgcctca	gcctcctgaa	tagctgagac	cacaggcatg	ccccttcaca	cctggctaaa	480
tttttaaatt	tttgnanaaa	tngagtctac	tttaatgnnc	aggcttggct	naaattcn	538

<210> 8933

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8933

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ccctcctggc	cctggaaggg	gocgaccccc	aaccctaac	ccaggacaca	gctggcacct	120
caggccctt	tccttctgaa	aggagggctg	tgtctctctc	acattcacac	atacacagac	180
acatgcatgt	gtgcacactc	atggcacatg	ggacctcagg	ggtagcctgt	ttgccgatcc	240
ccccaagagg	taccaggagg	cagaccgcta	gaaggagata	agaggcacc	tggctctcctc	300
caaccceaagg	aggaagaaaag	ctcaaccctt	ctaggatagg	gactgtcttc	agtcaatgga	360
gcgttgactt	agggggcggt	tttgaagggt	ttttttcctc	ctttttgcaa	gtcttttaca	420
aaatagaact	tctcttggtt	tttataaatc	tacggncatg	gctctatgtg	cattgtacag	480
gtagaaaagc	catatggggc	acttcctttg	ggtgggttaag	gccttgatgg	cctgtnatca	540
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<210> 8934

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8934

aaatgggcaa	agaacaatca	tttattgggt	tattttgtct	ctactaaaca	cattagtcac	60
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ttatcattta	aataccggac	ttcattagaa	gccgttgtaa	cactttttct	ccctcctgcc	120
ataaaaatac	agtaagtaat	ttgcttaaaa	aaaacaacac	aacactagga	acaagtgttc	180
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ggccccaata	atttggagtc	ctggactaga	tacccccctt	agacactttt	ggcncaagta	540
anccttcctt	tagcanggtt	ccaaccctg				569

<210> 8935

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8935

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ttaggatgaa	gttcatgcat	ttctacacta	ctcttaacta	aggctcaaga	gacaataaaa	120
acatagaagt	aattttttta	taaaaggaaa	taaaataatc	aagtactctg	agtattttcc	180
tccattctct	tatccagaat	tttaaggcct	ctgaaaaata	atgaaataat	aaaaatagtg	240
gttttgagat	ctaaattttat	taataatttg	gattcctttt	ctcagccaaa	agctactatc	300
tgaattaagc	ttttcagttt	aaaagcctgg	aagaccatcc	ttagaagaca	ttaaaaaatt	360
acttctgata	cacacactcc	taataattta	gatagatatg	aaaacaatct	caaatnaaga	420
tcaaaaaata	aagtccctgt	aaaaataacc	tttggttgct	cccaccacac	cgtcatatg	480
gatgatttaa	actgcaatca	tgaattttgg	aaaaaatngn	ncgatcttat	ctnttaaaac	540
ccttcctntcc	aaacttgaac	ctaaaanggt	tcttgn			576

<210> 8936

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8936

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aaagtaacaa	atttgctggg	gccaaaattt	atttagcctg	tttcaactgg	acgaactcac	120
gttcaatgcc	actcagtata	atttcaagtc	tgataagcat	ctaagtattt	ttaccccgct	180
tctaaaacct	gatgaggaat	tcaaaaataag	cacacagcat	taaagtacat	ttattgttcc	240
ataaatcttg	agacccaaaa	aggaatgcta	aatagacaag	caaaactttt	aaaacaaacg	300
agataaactc	acttctttcc	ccagtgactg	gtacagaaaa	catgttggtca	cacgaaagca	360
aagggaaaaa	gtcagaaagg	aaaactctct	gcctataggg	atctatagga	gttacagata	420
ttttcaaatac	gatgatgaaa	aatagatcgt	gcttcttttg	agcaaataat	taacccctt	480
tatgaataaaa	ccntaaaatg	tcaaacttta	ctcactgaag	tagttggctt	ctggggagag	540
attcaactca	aaattcccat	tnctattttt	gg			572

<210> 8937

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8937

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atacttaaag	aatcagactc	ttgcaaacag	tgacatcatt	aaaaagagct	tatTTTtatt	120
aacatgtgat	taacaggaag	gagatgattg	gtgagTTTTc	ttcgtaacca	ggttcactgt	180
ggataggaag	ggcctgcctt	ccttcccacc	atggagatcc	taaaatcaca	agctccagcc	240
tccatcaatg	atgacagggt	taccagttac	ataagcagat	tcatcagaag	ccaaatacac	300
gcagagcatg	gctatttctt	ctgcagttgc	gaatcttccg	tcttttgtct	cttcaggaaa	360
tcattccgtg	cctcttcagg	atttctctctg	gcttgnattc	tttctttag	agaatggcgt	420
atcaactgtt	cctgggcaca	cacagtttgc	acctgatgcc	ctgctgggat	gaaatctgca	480
gccncagatt	tgtgagggcc	aatcacggnt	gccttggttg	ggctgtcaca	cattggtcca	540
actcctgagg	gtggaggaaa	ggtcaccaa				569

<210> 8938

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8938

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agacagcctg	gaaaaactcc	tctagggctt	gcagacttag	ctggaaacta	atcctgagca	120
ggaagcttgg	cttgaaggga	taagagggga	ccctccaggt	tggcaatcac	gccgtttatt	180
cgcacttggc	agcaagacaa	tggatgatgt	gggaggtgcc	aggcccctgg	gttggcacta	240
atttggagta	tggttgagac	agggctggag	agaggcatct	tagaggtggc	cccaaatcc	300
gcaatcggga	gaaaaaggca	agaatcgact	agagattgtc	aggataaagg	gaggcactgc	360
cacccctgct	atgtctgtct	gccccacag	gggcttcttt	aatacctggg	gttccctggg	420
tgatgaatgg	tcttcttacc	cttggcaagg	ggcctaccct	gtcgccgngg	cccataggc	480
aacccctgat	gaaagagtnt	catttccaag	ggggcttttg	gttctggggn	ggnccacact	540
tgtcnggggt	aaatggcnct	gaaatgotta	ctgagccn			578

<210> 8939

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8939

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atatacttaa	aaagtntgtn	ccctatgntg	aagtaaaata	cattagcaac	atcttncgga	120
caccatcttt	ataaaagtaa	aacttctaga	tcctgaaatg	tactacagta	gagtctatag	180
ttnacacttt	taatcacaga	ttggaattca	ttctccttac	tcccctactt	cccacatgtg	240
gcagttatta	cttcaaaatt	aatgacattc	actcatgtta	tactaccaca	gataccttaa	300
tagagtacat	actgcataat	nactaacaga	gccagtcttc	tntatttggg	gtcacatatt	360
ncatataagc	atttgactta	aagnacaaat	agaaatacta	catcccacaa	ttgtaaacat	420
tcaccaggag	cttccatagt	acagtaagtn	acagaggngg	ccaagagtc	agtcaagnng	480
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<210> 8940

<211> 579

09629469.072800

<212> DNA  
<213> Homo sapiens

<400> 8940

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aagcacacca	ggtccacata	gcagagaact	tcacattatc	aagtttctat	ccaaagcttc	180
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catgatctgt	catggatcaa	tagtttataa	aggacactga	aacttggatg	ttgaggcaat	300
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gatcaaatag	ggcatgaacc	cacattggtc	cntggactgg	attttgacta	gtattgggtt	420
aaagaagttg	tcgttactcc	tcgaggtagt	ctcagatcta	atttctcttg	gattaattga	480
cactaatact	tgaagcncct	tacttactac	tngagaatct	atctactggg	tatgctttac	540
gncttagctt	tatcaaattt	taagntttgn	taaaaccnc			579

<210> 8941  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 8941

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atagtaatta	tgcaagattt	tatgcagctt	caagagttag	ccaagagaaa	agttgactct	120
tgcaagaaga	tatttttcaat	gtctatgcag	atcaggtagg	taagagttaa	gtgcggggga	180
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tctccttatg	gcatgccatt	atttggagca	acaaggttac	ctactcgaat	cactggatcc	300
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tgaagggcaa	ccgaaaagat	agcataaaaag	gccccgtntc	gaaaggnaac	tggcaacatg	480
cactccacgt	ttttagaacc	gattcaatng	gccccggttg	aagccttaat	ggaccattca	540
gaaantnacc	ctttggacna	ttggaaaatnc	ccttgcnnat	a		581

<210> 8942  
<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 8942

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tgccctagcc	tccccaatag	gtgggattac	aggctcccgc	caccacacct	agctaatttt	180
tttgaatttt	cagtggagac	agggtttcac	catgttggcc	atccttggtct	cgaactcctg	240
accccaagtg	attcaccac	cttggcctcc	caaaatgctg	ggattacagg	ctttgagcca	300
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taagccagaa	ttgggcttca	agagattttg	nccttcctga	ggcttggcct	ggctacttcc	420
ccagntacaa	anaagtgggtg	tgtgcctntg	cctncaccat	taggagcagg	gtttggaaac	480
ncccatggtg	ncaagaa					497

<210> 8943  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 8943  
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tggtttgaat ttccatgatg cctaaactcta tggtaaataa tccttttcct taccaaaaag 180  
gaacttctta atcaccagag aaacagaggg aagactgaga tatgtttgca gaaatttatc 240  
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gttttcggga gcgggttggt tcccataaat gtttgcttaa tacaataat ttgccccact 360  
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ggaagaagcc ctaatggctc ctaatgggtga cagagtcatt ctggctnccc agcctgtgag 480  
ccaatattaa agtttaccta agtggaccgc gagangnaat actagccnga taaccangg 540  
cttanaactt taacngaaat gcctgggggt tgaataatcn a 581

<210> 8944  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 8944  
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tgctgtgagag ggtcgtgatc gatttagcaa gcaggaggta cgtgggtacg tgactggggg 180  
ctgcacgcac cagtaattag attggaacaa aacaggaatg agattttcac aatgcttttc 240  
tatacaatgt ctgtaatcta tagataacat aaccgattag gtccgggatt gattttcaac 300  
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tctcctccct ttattccccc actttgagac tctnactcaa tancnnggag tngttcaagg 480  
ttactacca tgtcttcttt gotagacaga tcaatagnga ttatatagna cccttgggct 540  
gatgccattt gggcactaag ganccatnaa cttttatctt tgaanaa 587

<210> 8945  
<211> 292  
<212> DNA  
<213> Homo sapiens

<400> 8945  
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agcaggcagg cggcggcaag gctggcccc tggcgtggg gccgcgcata cttgaggaag 180  
actgcggcgc gaccggcgc gggacctcgg agcgcagcgc gggccatgca cggntcgagg 240  
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<210> 8946  
<211> 564

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 8946

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tgaacatgtc	tccaagccc	ttcagcattc	ccttcttggc	tttcatttta	tccttctcct	180
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agctctcatt	gcattcccctg	cctctgatta	tccgcggccg	tggaccatgg	aaanggaata	480
tnccattca	aagnccctcg	gnaactgggg	gctggagact	tttcaaaggg	ctngcttttt	540
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<210> 8947

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8947

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cagttccaga	gcttaatgct	ttttgcttgn	caagagtatt	cttaatccnc	agtaggatga	480
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<210> 8948

<211> 601

<212> DNA

<213> Homo sapiens

<400> 8948

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caaagtgtctg	ggattataga	tgtgagccac	cgtgcccaga	catcgaccat	atatcttaat	300
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tacaccaaaa	cgtctggtct	ctgcactatt	ggatctttcc	ccattggntt	ctaaataatt	540
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<210> 8949  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 8949  
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acaggcatgc accagcacgc ccgactaatt tttgtatatt tagtagagac ggagttttgc 180  
catgttgggc aggctgggtt ctaactcccg acatctggtg atctgtctgc ctgggcctcc 240  
caaagtgcgt ggattacagg cgtgagccac cttgcccggc aagcagcctc tgatttcaac 300  
tcaagagaca gaagaggatc ccaaattcca agcaactccc aagatgcaaa tcaaaatatg 360  
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tttccaaatg ggcaagaact ntgcaaacaa tatgttggtt gctggtnaaa tcaaggccng 480  
gaccttttta ccggttttaac attttggntt ggnccctttg aatttggggg aaactttana 540  
ccccctggtt aacttangga ggccnaaan t 571

<210> 8950  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 8950  
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ttttaatcac tcacacctga gaatcaaat cattaacagt caacttgcgc agaccgtagc 180  
aggtttcacc ccagccttag ggagtattatt tttaaatgca cggccttggt catagttttt 240  
cctcgaatat gtatttcaca agtccttccc acaccttccc tggtagagaga aagcaattaa 300  
gactacacaa tggcatgact tacagaaaagc aatttatgaa aggtagcctc actaatgttt 360  
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atcctgcttt accctacacc agccccc 567

<210> 8951  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8951  
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cccaacagcc ccttgccagg gagcccttgg ctgaagcctg gacgctgtcc ctgagggtgac 180  
cccagggtc aggagaaaag gtggtccagg tctctctggg ggctagcaga gtatgagtag 240  
gccttgccca ataccaagcg gtcccggagc agcttgaaga aggcatagta gttgctgaag 300  
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008220.69462960



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gcaacatggc	anaactccgc	tttactaaaa	atccaaaaat	taccttggnc	ttggtggcnt	480
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<210> 8955  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 8955	
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gggtccagtt	acgatcttct
aggagacct	ttccccattg
gtttngngnc	taatcttttg
ccttatagat	gctagatatt
atcttgtaga	ttgtctgccc
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cagaatggta	ttgcctaagt
taactcttta	aacctcttta
gcatatggcc	aaccagttat
cttggttttn	gcaactttgt
ctggcccact	ggnccctgggg
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<210> 8956  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 8956	
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cacatatttg	acttgggtga
tagctgaact	gtataatttt
atgatggcag	catgtgagca
aaccagttag	cttnggnccc
cctggacctt	gatgggattt
tgntataaatt	ttgatgcaat
aatattttcca	tttaaaatta
agcaataaaa	tagctacttc
tgataaatgt	tttatgatct
tttatttcaa	agaaaagaca
actccaagag	cgggataaac
cttttatctc	ttattctggc
caacatggcc	ctgaaaaagt
tcactctggaa	ccccatcttg
gaaaagccat	n
caagataacca	tattgaaaat
tttgaaaaat	tttgaaaaat
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<210> 8957  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 8957	
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actggtctca	aactcctagc
gccactgcac	ctgacctata
ataccatgag	taattttaagt
agatcctttt	gtcattttgta
cctcaaacct	tgttatgacg
ctcaagcagt	
ctgacctata	
taattttaagt	
gtcattttgta	
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tcggcacttt	acccatgaaa	aaggggttga	actgcagact	ggaagaaata	ggaagccaat	360
taaatagatc	attgagaaga	tcagtagttt	gtgcctcttg	taaccattta	gcttgcttgg	420
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<210> 8958

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8958

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gtgggtgtta	tttttctatg	ccaggcttat	ttcacctaag	ataatgcctt	ccagttgcat	180
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<210> 8959

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8959

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aatgcaaaaa	cttccatctg	ttagatacat	aaagagcact	tccttaaaaag	cgacatgtat	180
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aatattttta	tgngatttgt	ttcaacagtt	tatacccaca	gttttgatgt	gaaactggca	420
aacctatggg	ctgacagcca	cagcccatgt	agagggatga	ctntaagcnc	acttaatttt	480
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<210> 8960

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8960

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gatctaatac	tattaatagc	cattcagaaa	acactttccc	tccctcccaa	caaccatcca	180

gggggaaata	aaagtcctga	aaagaggcca	gttcaacatg	gcctctaccc	tggtagaaac	240
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agtggggccc	tggtgtgtgc	ctgggggtcat	gaaaggcaga	gcctgcagca	tcagtatgg	360
cagccgggag	accttgcagc	cacatcttcc	taccccgcca	catncacatt	ccaacttagg	420
ngtcatggga	atctttcanc	angggctctc	ttcgnntgnt	ccgctttatg	catctgggtc	480
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<210> 8961

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8961

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actcttaaat	aaanggctga	aatggcaacc	gtatgactgg	tttgactggc	tttnaagtag	480
tattagnctt	ctanaatcta	atctaaatct	tagaaccgga	aaccggangg	aactcaatng	540
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<210> 8962

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8962

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gggattaaca	aaaaagtaaa	agcttccaga	ccagccagag	ctaaagtcaa	attaaggctc	180
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cacaagattg	taaaaattaa	acgttaagga	taaaagccca	caacacgtga	ctgatattcc	300
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gcttatnggc	tatgcacagn	tcccccaata	nttcttggtt	ggagctccnn	tttcaagggc	540
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<210> 8963

<211> 507

<212> DNA

<213> Homo sapiens

<400> 8963

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gaaactgagc	taaggcaggt	tccttcttcc	aacagaagac	acagctgggc	agggactgtg	360
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cctggagggt	ccccaacna	ggaaagaact	ggncantnct	gccca		464

<210> 8967  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

<400> 8967						
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caggccaccc	ctcanatggg	ggtcccatgc	taaagcagac	ggtgccggtg	ccgcaggggcg	180
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gtgaggcant	gacttgtggg	ggttagatgt	gggcctgccc	cacgtgggca	gggatcagcc	360
aggcatgggg	gtncancggg	atccnantgg	ggcacannca	ccatgttttc	gnaccattac	420
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<210> 8968  
 <211> 565  
 <212> DNA  
 <213> Homo sapiens

<400> 8968						
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gtacaggcat	ccttaggtgt	ccacgtatit	gggacatgta	agtggagagg	catgaacctg	180
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tnaattccct	ttccangact	tcgaccantc	ccctaaaccc	agagcatttt	tttccctnat	480
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<210> 8969  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 8969						
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<210> 8970

<211> 489

<212> DNA

<213> Homo sapiens

<400> 8970

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<210> 8971

<211> 410

<212> DNA

<213> Homo sapiens

<400> 8971

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gcctccggag	ctgcacctct	ggcttataaa	gctttttggg	ggttaatcca	aatggcagaa	240
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gaggtggagg	aatgccaggg	cctccgggaa	atggaggagg	tggagggatt	ccaggaccac	360
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<210> 8972

<211> 386

<212> DNA

<213> Homo sapiens

<400> 8972

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<210> 8973

<211> 496

09629459.072300



<212> DNA

<213> Homo sapiens

<400> 8973

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caggcacgca	ccaccacgct	cggctaattt	ttgtattttt	agtagagaca	ggttttcacc	180
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tatnctgnan	gctgcaggnc	ttaagnttca	ncaactcncg	aaccaaaga	cttaaagggg	480
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<210> 8974

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8974

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tcataacctg	agtcctttat	attaaatata	ttatttacgc	aggcactagg	caaaattgaa	180
gaagttttga	gttatctcct	ccataacccc	caccttccca	cattcccaca	aaaaaatccc	240
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tcaaaagtgc	tcccagagtt	cttgatgatg	attcatagag	aaatctttca	atgctatcct	420
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ttacttttgg	cctttatggg	accgcgttta	taaccgggat	tattntgccc	gcannccgga	540
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<210> 8975

<211> 349

<212> DNA

<213> Homo sapiens

<400> 8975

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aaagcagatt	cgaacataac	aactgggtgat	tggctcatct	cacaggctca	catcatcagt	120
gtgttaacta	acatacaata	ggactgtacc	cttttacagg	attgagtgtt	ttggatccca	180
ctcacacact	aaaaccctgc	cataaagttg	tatcaattag	ggctgttcaa	atgtgaaact	240
gtattggaaa	atgggaaact	ttatctcctt	atatatgtat	attttttgag	atggcgtntn	300
gcncittngc	ccatgctgga	ntgaagtggc	notatcctgg	gtcactgna		349

<210> 8976

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8976

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cangctccac	atcctgggct	catgccattc	tcctgcctca	gcctcccaag	tagctgggac	120
tacaggcatc	cactaccact	cccgggtaac	tttttgatt	tttagtagag	acgggggtgac	180
cgtgttacc	aggatggtct	cgatctcctg	acctcgtgat	ccacctgcct	cggcctccca	240
aagtactggg	attacaggag	tgagcaacag	cgcccggcct	cctttgccac	ttttaattaa	300
gttctagaca	aaggactcac	agactaccag	attattttta	gaatatttga	ttataatcta	360
gaaataggta	tggtctgaaa	aagtactact	gatacagaaa	aggtagtttt	atagatggat	420
ggatttaaat	ttggagtatt	atgagttggt	tcagaagaat	ttaagaaagg	cagtctcaca	480
aaacncacca	aattttattg	agggaaaaga	ctttgcatga	aattaatttt	gaattttgnc	540
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<210> 8977

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8977

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tctttcaatg	taacccaaaac	aaaaccatgg	catacagtaa	actaaaaggg	tagacaggag	180
agaaaggttg	ctgcaattac	agaaaaattta	gaaatcagcc	tttaccagtt	acatctgaga	240
caaggtaaac	tttccaacac	attggaatca	tcagaagggc	tttaaaaaat	acaactgccca	300
gccgggcatg	gtggctcata	cctgtaatcc	tagcactttg	ggaggccaag	gcgggcagat	360
tgcctgagct	caggagtttg	agaccagcct	gggcaacaca	gtgaaaccct	gtctctacta	420
aaaaatacaa	aaaattagct	gggcgcggca	ntgtgtgcct	gtagttncag	ctactcggga	480
agctnangca	ggaaaattgc	ttggancccg	gaaggcaaag	gttcaatgag	cccaaatcgn	540
nccatgga						548

<210> 8978

<211> 517

<212> DNA

<213> Homo sapiens

<400> 8978

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gcttaagtaa	tgggtgcaga	agtccataag	caccctcgct	cctggaacat	taaccactct	180
gagatcctca	ggggaaaggc	agtctataaa	tacgaagctt	tacggttacc	cttagttact	240
tcacttttca	gagcataatg	caatctgtcc	caagtcccat	gttttatttc	tgtagtggat	300
tctgctgtcc	tattttatat	attgnatatc	atgcattatg	ttgctctagt	aatttttttg	360
aagatattgt	tccactatta	tttttacttg	tcttgaaaaa	tggaatagg	cggtaatgga	420
aaggaaggcc	tgctggcaga	atccttattt	aatttgcaca	gtagaaagtt	gncttatgng	480
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<210> 8979

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8979

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gattacaggc	acatgcacca	accctggcta	atctttctgt	atcttttagta	gagacagggt	180
ttcaccatgt	tggccaggct	ggtctcgaac	tcctgacctc	aagtgatcca	cccacctcag	240
cctcccaaag	tgctgggatt	acagggtgtga	gccactgcac	tggcctaaga	ttttcatttt	300
aacagggaac	tgttagaaca	gaaaagaagc	ttccaagag	gcactcattt	taaaaataaa	360
ttatagctta	aattattact	atgtggatta	tatcagcaaa	ggcagaaaga	attaatgttt	420
tcctcctttc	atgaaccttg	taaggctagt	gttgagtggc	ttacaaatgt	catataatgg	480
actgtaaatc	atctgccata	ttgatcaatc	atgttaattt	aaggttttct	taacattaga	540
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<210> 8980

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8980

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cagggtgcca	ccaccacgcc	cagctaattg	ttgtattttt	agtagagacg	gggtttcacc	180
gtgacccgcc	tcggcctccc	aaagcgctgg	gattacaggc	gtgagccact	gogccccgcc	240
aggatattct	tttttgacca	atattagtta	atctaattgg	cacagttagc	attaatgtgg	300
caatgtacag	tgcgcagtg	ttcatggaag	agggaatttg	gggatgtaaa	tgtaatgtga	360
cccttaagac	tatcaaaaca	caatccctta	tgtctcctcc	atctagatct	tannaataat	420
ttnatctatt	tcattttctga	attggggctc	gacctgggtc	ttaattgcgt	cagataaaca	480
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<210> 8981

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8981

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tataggcacc	tactaccacg	cctggctaata	tttttgtatt	tttagtagag	acgggggttc	180
accatgttag	ccaggatggg	ctccatctcc	tgaccttggt	atccaccac	ctcggttcc	240
cccagctaata	tttttatatt	tttagtagaga	caaggtttcg	ccatgttggc	caggctggtc	300
ttgaactcct	gacctcagg	gatccgtctg	ctttggcctc	ccaaagtgt	gggattagaa	360
gcgtgagcca	ccacgcccag	cctttttttg	tatttttagt	agagatgggg	tttcgccatg	420
ttggccaggc	tggtctcaaa	ctcctgacct	tangtgatct	ggccacctta	nccttccaaa	480
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<210> 8982  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 8982  
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ctcttaattc ttaatggggc caaataatcc tttccctccg aaatataaaa ccaggacaag 180  
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aacagaagggt ggcgctatta atattatgcc tcctctgaca cctgctacct gtcgattagc 360  
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tatgtgagaa tgtttttcaa gaagtctaag aggaaagtga cttttaaaac tggaaatgnc 480  
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aatttncnca aaatt 555

<210> 8983  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 8983  
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gcgacaggct ccttctccct gggaaggcag ctccactggt gaaaggccac tgaccaagtc 180  
cagaccctga ggacgacgaa ggccctcggg cagaagcctg agagaatcat gccccactgg 240  
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gctatgaccc agtttctga gagctgcaat gacgaacatt ggctctgtgc ccagaggccc 360  
aagaaggcca tggactgggc tggcctttcc tgggaaagg ggaaggagga agaactggg 420  
cctancaggg ccgtctatac cctggagagg caggcctgac ttcttcctta gagcttgcatt 480  
naagaggagg ctcananaa agagacttgc atnaanaaca cttcagncag ccgatntcca 540  
ctcagtattt ctttt 555

<210> 8984  
<211> 500  
<212> DNA  
<213> Homo sapiens

<400> 8984  
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gctcctcgtc ctggtaggtc caggagacca gcagcacctt ggtgcctggg tcctcagaag 300  
ggcgggcggc ctggaggagg acggactcca cagtacaga gccgtctggg aggtgctgca 360  
cacagtggtc cttcaggacg ctcttgaggt ggctgtagac gcgcaatgcc gtctcctgct 420  
ccttgcgtgt gtcatgcaag tgcacgccgc angtgaaacc caactgggtg ttnanncaga 480

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<210> 8985

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8985

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ttactggcat	gtgccaccac	gcctggctaa	ttttgtat	ttagtggaga	cggggcttcc	180
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gtaaatactt	aagtacaaat	gatagaaggg	cgggggggtg	agtaagacct	aagggttaga	360
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aacatcatgt	cagctttaag	atgaaattaa	accnagtga	nctagggcgt	ntgnttctaa	480
gggagcnctt	taaaattaat	ggangggaat	tcccacgggg	tttttggtt	ccccntt	537

<210> 8986

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8986

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cacat	ttctaaagta	ccgagaacta	acctcatctt	gtatttcttg	cagcttccca	180
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cccagccaga	atgtgatata	caagggttta	caaggaaaag	tagaaatggg	tgtagatgta	300
tgtgcttggt	gtaagaaaaa	tttacaactta	cagatgaaag	atccatata	aatccagcca	360
cataccatgg	aaaggaaaaa	caagaagaat	atgtaatagt	gatggttgcc	aaaacctatg	420
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antggagtga	ccctaanggn	tttcctatct	aaaaggggca	tttaaaaaag	gccttaccca	540
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<210> 8987

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8987

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ccttcctttc	ccttctacca	acctagagac	ttggactatg	gtttcaaagt	gaaattggca	420

tttctagcaa	tgaataccca	cagccctcac	ttcttttaaat	atcaacagag	aggntccttn	480
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<210> 8988

<211> 527

<212> DNA

<213> Homo sapiens

<400> 8988

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aggcaggcgt	ggactcggga	gccgagggtg	gtcggatggc	agcgtgagcg	ccagtatcat	180
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aaaatgccc	agggaatgtg	ggacnggacg	ggcccccac	aggtgganaa	gnaagccggc	480
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<210> 8989

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8989

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aaattacact	caggacccat	aactcttcct	cattataagc	atatgtagt	attcattcat	180
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gagatgaaaa	atgtattatg	gtaatggat	agctttcttc	tatttttgctt	ttagtgttag	300
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gtggcagggn	tacctggcct	aacaacctgg	ctactcctnc	tgggaccgtt	ctcaaangng	540
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<210> 8990

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8990

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attcttctag	tgctattact	ctacttaatt	caatcctggg	gttggtgntt	ttttaaatca	420
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<210> 8991  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 8991						
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ataagctgcc	aaccatttat	atacnatata	aatatttttg	ccaagaatgc	agnittacca	480
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<210> 8992  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 8992						
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catgtctgga	catccactgg	tagtggttaag	aaaacnggan	tttttaaaga	agcacaccat	480
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<210> 8993  
<211> 577  
<212> DNA  
<213> Homo sapiens

<400> 8993						
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
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<210> 8994  
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 <212> DNA  
 <213> Homo sapiens

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<210> 8995  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 8995  
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 aattgattat ataatcttcc ctccaaatct gctcttcctc tatttaccta tcttgggtgt 240  
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 agc 543

<210> 8996  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<400> 8996  
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tttaggaata	aataaaaaaga	ggccggggcac	ggtggctcac	acctgtaatc	ccagcacttt	180
gggaggccga	ggtggggcgga	tcacgaggtc	aggagttcgt	gactagcctg	gccaacatag	240
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<210> 8997

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8997

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tggggcatgt	gatggttagc	cagacccttt	ccaagggaat	actactacac	taagcctaca	180
ctgtactgtg	agagtcattg	tggaacaagg	ccacaggcag	tgggaggaaa	tgtgatgact	240
cactgngtca	gaatttctaag	gcccagcatg	atcaggatgt	aaggctccat	aatttttctaa	300
accagaaatt	atgagaagaa	caaaaattctg	caatcactta	tgntnttttc	ttcttttttt	360
tttttgagac	agagttttcac	ccttggttgc	caggctggan	tgcaatggcc	aatcttcggg	420
tactggaacc	ttcggcttct	gggggtcaacc	aattttctgn	ccaanctcct	gagtaactgg	480
gaatacaggc	atgtgcccc	acgcccagtt	aatttggaa	tttaggaaaa	aaggggggtt	540
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<210> 8998

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8998

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atgcacgcaa	gaagcttgcc	ctgctggaac	tgctcctcca	ggagactgct	gatttttgca	180
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gactcgtacc	actgtcggta	cgggtgtgctg	ncgatgagca	cgatgcaatt	cttcaccagg	360
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ttacgagtcc	acacttttga	gccccaggag	aaatttccca	cgtccaacct	canggcacng	480
gatttcttgg	tacctnccc	ggacacggct	gggtggatcc	cgccgggggc	caacttgggg	540
gtngcaactt	gggcgcccc	aacttaaa				568

<210> 8999

<211> 538

<212> DNA

<213> Homo sapiens

09629459.072800

<400> 8999

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atgcctggct	aatttttttt	tgtattttta	gtagacacag	gatctcacca	tgtttgccaa	300
gctggttttg	aactcctgac	ctcaagttat	ccacctgcct	tggcctccca	aagtgctggg	360
attacaggca	tgagccacta	cacttggcct	ttgaaactta	cttttacaaa	agatagggtca	420
tttctctnct	gggaagacca	gcgaacatnc	cctgggttgg	anggcctnca	gctntttcaa	480
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<210> 9000

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9000

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aatgaatac	aagtgaata	tataaattac	aatgaaatag	aggaagattg	tggctctgtc	180
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aatcaggata	aataacgatg	acatttttagt	cctttaagtt	cctattttta	gcaaacataa	300
acagactgat	cttagcttca	gcaaagctta	ggccaaccat	acttagggct	tggacaatgc	360
tcacaaaatg	tttcttaaac	aaaccagat	cccttgtctt	ccatgagtaa	aggctgcaga	420
aagggcccat	agaaactgca	ggatctgatg	gtgggggttg	tttgagtgca	tttgtgtggg	480
ggtttaatct	tagggattaa	aagatatggc	ntggaagntt	cacactggta	tgaactcaag	540
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<210> 9001

<211> 565

<212> DNA

<213> Homo sapiens

<400> 9001

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cattcaagca	aaggacaata	tgagtaactt	agagaaatag	ccacattcaa	tgcacttaat	180
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acttttatag	cataaacaca	gctaaacata	gtgttaacaa	ctgacagcat	cagtacctgt	300
tctaattgca	tcagtgttta	cctctcagtc	tagcatgctg	actatagtc	tatgcttta	360
aaggttataa	ttatttgaca	gttaaggcat	tagaggaaaa	aggtttaagg	ctatcataat	420
atatataagc	attcacttct	ggtcaagtta	gtgtattgg	ttctagaata	cactggttca	480
aatggctcac	ttctgggata	ttaaaaaacta	tgggaattct	cttattaaag	tccaaccatc	540
attatgaaaa	aagtccattt	aaann				565

<210> 9002

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9002

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agaggtggcc	cccaaataccg	caatcgggag	aaaaaggcaa	gaatcgacta	gagattgtca	180
ggataaagg	aggcactgcc	cacccttgct	atgtctgtct	gccccacag	gggcttcttt	240
aatacctggg	gttccctggg	tgatgaatgt	cctcctaccc	tggcaagggg	ccatacctgt	300
cgccgtggcc	ccataggcaa	ccctgatgaa	agagtatcat	ttccaagggg	gcttttggtt	360
ctgggtggcc	ccacctcgtc	gtggggtaga	tggcactgaa	atgctaactg	agcgagccct	420
gnaagtcacc	agggggctcc	ggaaggtcac	ccctgacgtg	gaaggcctga	natcctgagg	480
cccatttntg	tgggggggca	ctggtgccct	ccttggggccg	ggccaatggc	taccctgggg	540
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<210> 9003

<211> 565

<212> DNA

<213> Homo sapiens

<400> 9003

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atgagatacg	ggaggctggg	gtggaggggct	cgggtcactg	gtgactcgcc	aaaaaaaaaa	180
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aggctgggac	tgagtctccc	ttacagccag	cccatcaaga	gcaccctgaa	ggagtcagat	420
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ccaagggatg	ggagctgggt	atctccatcc	aacttaattt	ctgntaataa	tcctcatattt	540
cacttccaag	naantgatg	ggagg				565

<210> 9004

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9004

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tagctgggac	cacaggcaca	cttcaccatg	cccagctttt	taaaacatat	tttttgtgaa	180
gatgcggtct	cattatgttg	gccaggctgg	tctcaaactg	ccggactcaa	gtgattctcc	240
caccttggtc	cccaaagtgc	tgggattaca	ggtgtgaccc	accttgccctg	gcccgggggtg	300
tctttttttt	ctgagatgga	gtctcactct	atcgcccaag	cctggagtgc	agtgggtgtga	360
tctcagctca	ctgcaacctc	cacctcctgg	gttcaagcga	ttctcctgcc	tcagcatccc	420
cagtagctgg	aattacaggc	acacaccacc	atgcccggt	atcttctgga	tttttaagta	480
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<210> 9005  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 9005  
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ccagccagct gatccctttt tttaacctat ctatgctttt gcttgcatag ccacttaaca 180  
tttctagttag atcatctttg gtgaaaacta caaaaacaaa ggagaaaagg gcagattgaa 240  
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attcgcattt tgggtgataat taactctctg tagaaaattt tggaaatcta attaatagtag 360  
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tcttcccttt ttttagaccat gttcactgtc aaaaangtgc ttttaagagca gtctttggct 480  
gggcacggtg gctcacacct gnaatcccag cctttgggan ggcnaggcag cggatcacga 540  
aggtcaggaa aca 553

<210> 9006  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 9006  
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tccccaaggg ctgccggcag caaaggcacc acggaagctg caggggacag gggaggccgc 180  
tgcttcttgc atttttgtct gaaagggtccc tgtggagtcg acgagggaat tctcactgaa 240  
gcagctataa aagaaagcgg agggcacggc gcctccctga agcaccagca gctgttctgt 300  
agacggttgt tgggccacac gcaaaggact tggttcctgt cccagctta gtggtccgtc 360  
agaggaaagg tctcttcctg cctggctggc cacagcatgg ccgcctcttc catgacgggc 420  
acctgtgtan gccagcctct ctctcctgcc gccctgctgg gacggaagcc cggacgtacc 480  
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cttcttcaaa atatccctga 560

<210> 9007  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 9007  
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nnnnnnnnnnnn nnnnn 554

<210> 9008  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 9008  
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tcacagtttt acagtattca aaaatgacag acctgcctta aaaaacaaaa caaaaaccaa 180  
aaaaggacta ttacacccaa aacataagaa aacaattaaa taaacaagtt tggcattttc 240  
ataactttat agtataaaac agaataattaa atttattact ggcaaacgga cactgattta 300  
tttcctttga aatgtgtccc atttaaacac actatacaag ttcattatac aaaagatgga 360  
tgatcatttt gatgaaagaa gtgcaccctg aaaatttttg ccagtttaga atatttagct 420  
cttaaagggt aaaaaaaaaa ccttttcctt ttttaaacctg aaggctgaat tcagaatttt 480  
tttggtggct catctgncaa gcctttcttg gtnaaaacc atngnggcta ttggccccc 540  
caagggggca nggaagaata ct 562

<210> 9009  
<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 9009  
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aggttgtgaa tgttttaagt ccttcaatca agtttcaact cttccacttg cataaggaat 180  
caagagcctt ctctctttta attatgtgtg ttttatcata cagcctacaa tgcagtaa 240  
cacagtga aa gccctgggga aaacaaaaca acatgatctt tacagcggga cttgaaactt 300  
cacaatagta aatgcagttc aagaagcttc ccataataaa agcgcggggt ttcatttcca 360  
gaaatcaagt caattagaaa ccctaggttc tacttaaaaa cccattttga tctaaaagt 420  
aaaacagtcc cctatccata ggcatittat aaactctata cagtttctact tgcagagatt 480  
tttttttttt ncagctngga aacagtnntg gcgaagggtta agcccgggat gccctggaaa 540  
nctggtnatg gctcaaggat 560

<210> 9010  
<211> 487  
<212> DNA  
<213> Homo sapiens

<400> 9010  
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tcccttgccct tttctggcct ctggcggcac ttgactcctt tggctcctcg tcccttcttc 180  
cgtctttaaa gccagcagcg tccccttggt ctgtctctga ccacggctgg gaaggagtct 240  
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000220" 69462960

tcacacacct	acaaagtccc	tttggctctgg	gaggtaacac	tttcccaggc	tcaggggatt	360
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<210> 9011  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 9011						
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tcagatgctg	aattgatcaa	tcaatttttg	agacggggtc	tcctctggca	ccagggtctg	420
aactgggtgca	ngtcctccag	tttgcngcaa	aaggttggca	gcagaggaga	atggatgatn	480
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<210> 9012  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 9012						
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<210> 9013  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

<400> 9013						
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agacaatatg	tattcatctg	ttctcacact	gctatgaaga	aatatctgan	actgggtaat	180
ttataaagaa	aagaggctta	attgattcac	agttccacat	agctgaggag	acctcaggaa	240

acttacaatc	atggcaaaaag	gcaaaggaga	agcaggcacc	tttgtcagat	cggggggtct	300
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gggccttagg	cagggtgaata	tggttttatt	cagcagcagc	tctcattaac	aactttntca	420
cactagctct	ttatgctggc	ttncctgnct	aactgcttga	gctagnnggt	ccacatacag	480
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<210> 9014

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9014

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aatcaagaag	ctcgatagct	tanaataaaa	ggctgtaaag	ctgatataca	gattaaggaa	540
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<210> 9015

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9015

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ggtaaatggc	agttggggag	tgagggtagt	gtgcacacac	acaaaaccct	agggaggtct	180
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aagtgcattc	cctatgtaaa	aatgctggat	ttcagccact	gtgtgcagtc	aggtgctggg	420
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agggcggtca	ttttggcagg	gtaaanatga	aaaaagtccn	anaagggcaa	nggatatacct	540
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<210> 9016

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9016

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gactggagga	ggaacacccat	tatgcattgt	tatcagcgtg	gtgtaatttg	actgttgaca	180
aagtatccgt	ggcagtgcga	atgagcgcag	ttagaagtgt	ggcggattgt	aatcaagaag	240
atgcttagct	gtgcaacact	gcatctcgag	cagatttgaa	tcaacattgc	cttaagggga	300
cacacacaca	tacaaaaaga	aaaaaaatcc	attaattttt	agagggaaaa	ttagagtggc	360
acttgatgaa	gtgaaatttg	acatgcgtta	attgggtgtg	agctctccta	attagagatt	420
ttcaaattct	tttactgntg	ncaccatgaa	tggcacattg	cnttgctgga	caaatnctaa	480
aattgcaa	tggccttggtc	cggaagtttt	acgtttgaag	ataccctgga	tccttaagcc	540
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<210> 9017

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9017

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atgtgagagg	cgcttctctg	tacagcagcc	tgtactgtct	tcaatcctat	gcgtgcaggt	120
gtctaccaca	ggcaaacagt	tttctcccca	ttttgtagta	atgcgatttt	cctattagca	180
aaaagaggtc	accagcccct	gtagacttaa	gggactcaag	tcacaggatg	gggatttcct	240
cttaatat	tttattttgt	tgtttgaact	cttgatgcaa	cattgtagag	cagggtgttc	300
aggacctgct	gtgcccgaagg	gactgataaa	ggaaaaagct	ctatttattc	tttttgtgat	360
ttgatgcaca	gatgaaaaaac	ttaacacaca	ataacagaag	ttggtcgtta	ataaatcaca	420
tcctagcttt	caacgcttnc	gtaagcagac	gacatcttca	gtttctagct	cttgnagntt	480
caacactgca	catcaatgat	gcatatgtcc	agaatcagta	ccaagaccat	tcgaatcttt	540
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<210> 9018

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9018

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ctacaggcgc	ccgccaccat	gcccagctaa	gtttttgtat	ttgtagtaga	gacgggggtt	180
cattgtgttg	gccaggctgg	tctcgaactc	ctgacctcaa	ctcatctgcc	cgctcggcc	240
tcccaaagt	ttgggattac	aggtgtgagc	caccacgccc	ggccaacgtt	ccattttaat	300
taacttaaat	acgagcagcc	acatgtggcc	tctggttcct	gccacggact	cgggagcaac	360
ccctcctgg	cgcggtttat	gogccttctc	tgtgtgctgc	tggggtttaag	tttgcattga	420
acctcttgag	gacccacagt	gtgcattcct	aanggggtgcg	gncttccgtt	tccttatgaa	480
tgggaagaag	tnccacctgn	tgattcttgg	aaagagctgt	gaaggatggg	gtaaatcttc	540
cttactgntt	taaaaaattt	nttgggangn				570

<210> 9019

<211> 576

<212> DNA

<213> Homo sapiens

09629459.072800



<400> 9019

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aatgactcct	cccttctggg	acaggttgaa	tatccataaa	agggtgcctt	ggcatgtgct	120
cagtcctgaa	attctacttt	gatctactgc	tctcatcttt	gaaactgctc	taaacactcc	180
cccaaattat	tgatcctatg	ggcctgatta	tgaacttggc	tcttctgaca	atacttctca	240
aatcctgtac	cttttgtaac	atctctcctg	actggcagag	taccagaca	cttaattaat	300
gctgatgaaa	attaagattt	aagcaaagaa	gaaattgggtg	taagaatgca	agccttagga	360
tctgaaactt	gatgactgtg	ggatctaact	tctgcttctt	ttgctacaag	ctctgttttt	420
gaataatcaa	ctttcaaaga	caaattgctt	gatgaatctc	tnnattgtca	gaatgggtct	480
ttgatttccc	atcaaaagcc	ctgtatgtgn	actagnaatt	aggacctacg	ancgtgatat	540
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<210> 9020

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9020

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tctgagatag	ggctctctaag	accaggata	caagggtgga	atgtagctat	atggactcga	180
tttgcttccg	gaccttttcc	agagcctttc	tgtccaattg	tcgctgacga	atgatgacaa	240
gacaagcgaa	gatcagggcc	acacacacga	cagccccttc	gaacttccaa	aataagcgtt	300
gttccatcaa	agctgagcgg	cagcttttga	actcatttct	cttagatgag	ctgcatgtga	360
ttttctctac	atatcctgng	ggaccacact	caggggtagt	tttagcccgg	aaattagagc	420
atggagagcc	tcttctggtc	cacaaacttt	ttcaccagcc	acatgggcaa	atttgagggc	480
ttgctgacag	gttctttttc	tgcacgggag	cctntgnttg	gcanaacntt	tangggnaag	540
tccngagcaa	cccccaaagg	ggg				563

<210> 9021

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9021

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atgcatgctg	gtc aaaaaat	ggcagctctc	atcactatca	atacaaaaac	ataaagcaag	120
acattctctg	ccctttcttc	ttgtttctgg	atgtataaat	gaatatttct	ctatggagga	180
aaagtcatga	acatgagggt	aactccacga	cacaaagtcc	atggctgact	tccactcct	240
tagccagatg	aaaggtcaca	gcttagagga	acgggtcttt	atgtgcttat	gacttggtgt	300
tggaaggagt	tccctgacca	tgggagagct	cagctctgtg	atgatttagc	aaagcaattc	360
agaatgaaat	ttggcctggn	tatacactaa	attaatgtac	caaattccacc	tacctttcta	420
gctaattggg	aattatgaag	gttgcccttg	aagaacaaat	atttcccaat	agaattcacc	480
gggtcccacc	aaaacagtca	agaatttgga	gttctggggg	gttgccatt	ntcccgaatt	540
ggaancctac	ttaactttat	tgggggtctt	aaagctnaa			579

<210> 9022

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9022

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gacaccaa	tggtattttt	ccctttgcta	gtaaaggat	aagcagaaac	aattgcaaaa	120
gaacacataa	catctagtag	ggataatgat	gaaagccaaa	aatggattat	ttgaaaataa	180
ttttggaagt	aaaaaaacca	taggtgtgag	gaaaaaagag	agaaactaca	aataaactgc	240
attgtgataa	aacaataaag	cacatagcta	aaagcctatt	aaggattttt	taaaaattat	300
attttgagaa	acacttgggtg	ctaataattt	tctcaaaagt	caaatatcca	aaagtcatac	360
agaaaataaa	acaacctact	ttccatcaaa	agtttcta	tttattctga	gaaaagataa	420
cccaagaaaa	caatttttaac	tccagaaaca	atgggtagcg	taaaaattan	taatcaaaag	480
ataacctgt	tntaggnctt	acaacttata	accatttctt	catacaatct	catatttaag	540
gtcatccngg	tgatat					556

<210> 9023

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9023

gtatttcagt	agagacgggg	tttcaccatg	ttggccggga	tggtcttgat	ctcctcacct	60
tgtgatccac	ccaccttggc	ctcccaaagt	gctggggatta	caggcgtgag	ccaccgtgcc	120
cggccgcaac	ttatattttt	aaaataggct	tttagatcag	ttttaagggt	tattttatag	180
ttaactagca	gaaaatgtgg	attaaaatta	cagtaccata	ctcaattaaa	aatcatgctc	240
tacataattt	aagttctcct	gttaacttct	gtttgggttg	aaccccgaag	tacaataagt	300
gtagattctc	attgtgacct	acctgcccc	tagggcattt	tgcaaaaatt	anccccctta	360
ccaattggaa	aggcagggtg	cangggcttt	atggatttca	tttaatctgg	aanttttatc	420
ctattanacn	ttgaaactgg	gttaaatatg	aatgngccaa	tttaagnaaa	tattcatnt	479

<210> 9024

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9024

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acaagctgaa	ttcctcagta	aagaaagctt	gagaagacac	taaacaagga	tgttactaaa	120
agacaatgat	ttgttaaaat	tataaagcaa	tcatcttttg	gcctgcaaac	agtcaacatt	180
agaactctcc	accactgcgg	atctggctcc	ccatcacagt	attattctga	atccaggata	240
attacaatca	catggcattt	ttttctgcat	gctttcttgg	cccaaaccct	gcatgacaac	300
atatacaatt	tacaagatgg	gacttgaaat	tcccattctc	acacaggata	gttagggcgt	360
gttaccaata	ataaagaata	aaagttatac	aacattgatt	attataaatt	atattngntc	420
ttatccaccc	ccattctcct	taatatggta	ctttctttcc	tgcaaaaaac	atgatgggcc	480
tatntnccan	tacatcatta	atgatgatta	gaatgagctg	gtaaagacct	tggatttgaa	540
aactgtttgg	g					551

<210> 9025

09629459.072800

<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 9025  
gtttgctcat tcattcgttc atttatttac gtatagatag cttatgacac acagattttg 60  
gcgtggctta ttgaaataaa atgaatgcaa actttaaaaa tttggggaac aagtttttaa 120  
cattagaata taaaataagg atcaagagaa aacttagggc agagatacgc agccataagg 180  
tcttaaatag cttttatagt tgaagcctca ttttgggtta aagcttctgg tagttaaagg 240  
gaacaaaaag atagtgcctgc agaaagttct ggactgggaa cctggagatc agatttatta 300  
ctgaccagtt ttgtgccttt tggcaaagca ctttatttct atgagccttg gtttcctcat 360  
ctgngtaagc gatgggttat taaaagggat tcaatgggat atgggctcaa accctatnga 420  
actccagaat ttggagnatc ttttatcctc antantagca catggttaag gggttttttt 480  
gcaagncctg gaccaaagtt ttgggggttg cttcttcac cacaagcttg gggctttggg 540  
ccaacnntt gacttntttg an 562

<210> 9026  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 9026  
gtagagacag ggtttcacca tgttgcccag gctagtcttg aactcctggg ctcaagcaat 60  
cctcccattc cagcctccca aagtgcctgg attatagttg tgcggcctat gtgcaattct 120  
gaaccagaca tgaacgctta aatcagaact agtattgcaa tagctgctaa tatttcacca 180  
atgttataaa ttgcaaagtg ctttcccatc tcacttgatt aaaccaagct ccatgctaac 240  
agcagcctcc tcccagggct ctttgatttc atttttactg cagtccattc tcgacacaaa 300  
aaccagggtg atctttttta aatgttgatc agatcatatc actctcttgc tcaaagtttt 360  
ccagtagatt ccattcccac taagaaaaac atttaaattt ctgntggcct nttcgaggtc 420  
tttctacatt cttnctgcan gtgcttactg gcaacagtgg nctttcaatt nctagaacat 480  
gccaacctt gggcttttca caagaacctt ggacctggcc agctttgctt gaaccctttt 540  
aatccttttt aaaggg 556

<210> 9027  
<211> 394  
<212> DNA  
<213> Homo sapiens

<400> 9027  
ccttatttagc cactggcatt tatcatatat ttgagacact tccaattgat tgcacaagtc 60  
agatgttgct gatgagaaga ttttgtggtt gtctgcatgg taatttacia attctatgcc 120  
aggcacctgt agtcccagca actcaagaga ctgaggtgca aagatcactt aagctcagaa 180  
gttccaggta gtgtgctatg actgcacctg tgggtggccac tgtactccag cctgggcaac 240  
atagttagac cctgncntna aaataattaa aaattctgac tattttatta agaaaaaggg 300  
ttantttcta actggtacca nggcccctat ggacctataa nttggcacc tgnctcactt 360  
aattcttttt accctggctt tntaaggnt ggan 394

<210> 9028

0969469.072800

<211> 560  
<212> DNA  
<213> Homo sapiens

<400> 9028  
ggtggatgag aaggcgtatt tattttttcac tgtacagtat ttaaaaagag aataaaaaaaa 60  
tccaaatggc tgtctggctc ctgtgccttc tttgtcccca gtttgggtcca tttgtttctc 120  
taggactgac ctgccctggc ccctggctct tgttttctgt tcctccacat ctgacttctc 180  
ttcattgtct cttgtcccaa agatggctct acttctggga atgactcagg aaacaaaaat 240  
ggtctccctc ctcgcccttt cttgccccag gggcagttct gggatttgag gagcaacagg 300  
caccaggaaa ggggttgggg tggtagtccg ggatgctgcc cctggagaag gtgaagcggc 360  
ccgatgaacg cgttcatggt gtggagctcc gctcagcgcc gccagatggc gcagcagaac 420  
cccaagatgc caacttcgag atctccaagc gcctgggccg cgcaatggaa ctgctggacn 480  
aggacccaaa acgggccttc gtggangaag ncaaacggnt cgggccccaa ctggggcgaa 540  
tancccgact acaagaccgc 560

<210> 9029  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 9029  
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gccatgtttt agctcttcct ggatcgtctc agatctgcca ttctcttgga tatgaacctg 120  
tgggcgtggc agaaaccagc aaatcagtag gggcttggtt tgttcttggt tgatcttcac 180  
gttaagatgc tattgagctt ttttatccat ggatggtctt ccaacaactg catccctcac 240  
agtggcctga gtggaattac cgatatgaga agaagcctgc tccaacacat atgcggcacc 300  
aaaatcaata gctccgcccc gctcacgata ttgaccagaa tacctgatgt agccccaggt 360  
gaggagtgtt attaacagta gtccaacat acagttgaac aactggggct acaacctcaa 420  
gacctatgaa gccagtgaag gcctgaggct atgtccaaag ctncaatgcc cntgaacaag 480  
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aatncctgg attcccc 558

<210> 9030  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 9030  
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ctgaggagga ggggtccatc tctctcctgt cggctttcac cgaggtcaca gccagacgtg 180  
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gggcccagga gtccccagct cacaggccag ggcatcaggc caggcgcgct cgggtgcacac 300  
cgcacctgtt tggttagttt ttttaciaaag acaggatctt gctgtgttgc ccaagctggt 360  
cttgaactcc tggcctcaac aatcttcac cttgggcttc gaaaagtgtt gggaataactg 420  
gcatgaacca ctgngccccg nttgagctcc cggttttnaa cactgnacca atctngaaaa 480  
actgaccttt ttctggccta caagttatct gaacttaatg ttaggaacaa aaaaccnttn 540

09629469.072800

tggacaccgt g 551

<210> 9031

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9031

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atgtccacca	caaaacagaa	tcaaataagt	ggtttagcaca	acaaacatag	tgatcttttc	120
catttttaaaa	aataataaata	acaatgttca	aggttttaca	gttttcttag	tgtgtgtctt	180
tttaaggctt	tatgttgcag	acccttcatt	aatgggtactt	gtaccctgcc	atcaggatac	240
actgcccacc	agcaaggaag	gccactgtgg	atacatttct	gaggggggaca	cacactgac	300
catgttgcct	cagcctgtta	aaaactaaat	gatcaaacac	cctncaatca	gttctcagtt	360
tcattaactt	ctttctctca	aagtantaat	agaaaggggt	ncgtgtccag	cagcattcga	420
gctctcagaa	gatcaatcag	gaagggcann	aaaggaaaaa	ggcttcctcc	tggaaaagaa	480
tttttttct	ttcancagga	accaacccca	nttaccocna	angttcaacc	aggggttgn	540
cctgaaacat	tttcaaataa	aa				562

<210> 9032

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9032

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tacagttgca	agaatctaaa	gtgtggattt	tattccattg	cacaatttgc	tagtgtattt	120
cctgggtagt	gtgggtgctga	ataaatagga	atagggtggt	ccctgggtctc	tcctatagtt	180
tgaccaacag	ttgacccaaa	aggttatggt	cttcagcggt	ttaattatat	ccacgactag	240
atactgggggt	ctgtattctt	caaagtgtgg	ggctgcctat	tctcccagga	accaaatggc	300
ctccgtctta	agaaagtatg	cttactagga	aataccctgc	ctaccttagg	aataaatgct	360
acttaaggaa	aaaataagag	agctgaaaaa	gctgggtgcca	tttgaaaaaa	aaaagggaag	420
gaatgagatt	taactgggct	caaagcttnt	ccgatncaaa	atatttgggc	atgnnttcat	480
aattgcttgc	catttnccgc	caaaccgaan	atggcattac	caaanggact	t	531

<210> 9033

<211> 507

<212> DNA

<213> Homo sapiens

<400> 9033

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gcaagctccg	cctcctgggt	tcacaccatt	ctcctgcctn	aacctccoga	gtagctggga	120
ctacaggcgc	ctgccacctc	gcctggctaa	ttttttatat	tttttagtana	nacgggggtt	180
taccatgtta	gccaggatgg	tctcgatctc	ctgacctcgn	gatccaccca	cctnagcctc	240
ccaaagngct	gggattacag	gggtgagcca	ctgcgcctgg	ccatgcctgg	ccaattttta	300
tattttcagt	aganacgggg	ttttgccatg	ttggccaggc	tggtcgcaaa	cttctgacct	360
caggnaatcc	tcctgcctna	gcctccacac	tgctgggatt	acaggtatga	gccccagtg	420

ccggnccttga atccctctat ttncccccaa agaaaaatgc tgnitttaccc nccaacagaa 480  
ccttccagga acattnaagn attgcat 507

<210> 9034

<211> 564

<212> DNA

<213> Homo sapiens

<400> 9034

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rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	120
rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	180
rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	240
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rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	360
rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	420
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rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	540
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<210> 9035

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9035

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caaactgtag	ttaactgggtg	cagtttgctg	agcatgtttt	ataaaggaaa	ggaaaggaaa	120
tgccaaaacc	ctggtaaagt	tgttccattg	cagcctaaga	gaacaaagat	ttgttttctca	180
gacacttaaa	tcaggcaaat	aaaaataagt	ttccctcccc	cacctgaagc	agttcatcag	240
tagaaatagc	ctgataaata	actagacagt	ctttgcactc	gagagattcc	acaacatgta	300
atgcaataat	ggaaagggtt	accttcttta	gcttcaaagt	tggagggttt	tggtcatttt	360
aattttatat	caaactaagt	gcttttcaag	cccgcagtat	cttcactctg	agataagcag	420
tcttcttcac	aatgggattt	ttaanatccc	cangtccaat	ttttagacca	aagcantttt	480
aatactaggg	gcacacccca	tgccctgntg	gaaactgggt	tttcttggcc	aggttttgaa	540
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<210> 9036

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9036

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rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	180
rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	240
rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	rrrrrrrrrrrr	300

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 9037  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 9037

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attttctga	tattatacat	gcaaatacact	tacttttcat	agaattttacc	attcatcaaa	180
tgactttcaa	caataacaat	ggtctgacat	tctttcatgt	cgtactgaga	tttcagatat	240
ttattagaga	aactataaga	cagattttcc	taatattttt	gaagtatgag	ttcctctgaa	300
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agagttcaca	atgaaacacc	tgcatagctc	tgcccaacat	ctctgtaaca	acagccaagg	420
gccggncttg	aacatcatgc	acagcaatag	angnatcatc	catggagtcg	ancctgtggc	480
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ccaggt						547

<210> 9038  
 <211> 567  
 <212> DNA  
 <213> Homo sapiens

<400> 9038

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ctttcttcct	gctacccagg	caccgaggac	tnaaccattt	accgncttna	tnctgggctt	480
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agccttttgg	ttaaaaaang	gcgggng				567

<210> 9039  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 9039

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gggtttactc	tcaagagact	ctaggctcac	tgcccataaa	cctttgagtt	ggaccaaaac	120
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09629469.072800

tctgaattac	ttcatatttg	acatctattt	tgaattcttg	ttttacaggg	tttaggatgg	240
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catgcccctt	ctagctttta	gaccagcagt	tctgagacag	ggattatttg	cttttgtttg	360
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agagcaagaa	ttggcttaac	tctcttcact	tatatgtgan	gctctggcca	tacttaacag	480
acaccccggtg	ggactaacac	agatatgggtg	ggcctgctgg	gctctttcca	atgggcccac	540
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<210> 9040

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9040

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gagagccgtc	acagggcggc	cttaggttag	acttgaagga	gaacttccag	gtggcagctg	180
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tggcgggtgc	ctataatccc	acttattcgg	aggctgangc	aggagaatcg	ctttgaaccc	420
nggangcgga	actttgnogt	gagcccaaat	cgngccactg	nacttcaacc	tgggcaacac	480
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<210> 9041

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9041

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ggggaaaatg	aatttttagaa	tatgaaagag	aggtaataa	atagccaaat	atgtcaacca	180
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ttttgacata	aaaattgcaa	aacttcagct	aaagaacaaa	taaaacattc	agacacaagc	360
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ggcatggaca	gcttctagt	ggnaatagga	tatagtccgg	tcttgntgga	agacaccctn	540
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<210> 9042

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9042

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------------	------------	------------	------------	------------	------------	----



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tctcagctta	tcttggatac	tttctggcct	aagtttaaaa	tcagctatct	ttcaagggaac	540
cctggttcgt	ttaatggaaa	angggggg				567

<210> 9043

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9043

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aagctagggg	taaattatatt	ttaaaatatt	ggaattcaca	aaaagccatt	caaagcataa	180
gatccagagc	acagaaaaaa	tgagtaatac	atctgactac	tacataagta	ctaaaaacat	240
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accaacaaaa	tgaaagtaag	tgacaaatcg	gaggggaatat	ttgcaacata	tttgacaaag	360
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gggnccagga	gttcaaaaacc	agcctggggca	catggnaaaa	tcccattttt	ccaaaaaaat	540
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<210> 9044

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9044

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gattacaggc	accaccacc	ataccggct	aatttttgta	tttttagtag	agacagggtt	180
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taatattgtg	ctggatttag	tctgccagca	tggtgttcag	gattttcgtt	cctggggccac	420
aattctagac	acaccctggg	ctggaaggga	accactggc	ttgaaggaaa	ggaccccatc	480
ttggctgnat	tcatggctgg	ttaactgaan	aanccttngn	ccctgaataa	ccngcngaaa	540
tacctggg						548

<210> 9045

<211> 566

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9045

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tagaatat	ttagaaatat	tcttcaacat	agtatgatgt	caatgcagaa	atgagaaaag	180
aactaaggat	ttacatcagg	ttacaatata	ttaatcaaaa	aatacatttc	tgtgcctcta	240
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tttcctata	ttcttcaaca	atggatataa	gtattgttag	tgcaaccagt	taacagcaac	360
actctgacgt	gtttcataaa	aacctatact	attttataaa	aaatcccttt	caaaataact	420
ctttcaaagt	aaagttccca	aaaaggttaa	tttaatccct	gtngacatac	ttcataaaag	480
gtcagatatt	ngcaatat	ccaaacntta	cggaccta	aagaagctnt	ttaaagcacc	540
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<210> 9046

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9046

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gctacttact	agatgtggta	tcctgagcaa	gttaccacaac	atctcttctg	taaatgggta	300
tcacaaaaat	gaatttcctag	gagtttgagg	attaaataat	gtgtatagta	tacacaaaaat	360
ctagcattca	gagctaaatt	aagagtagct	aagcagttca	ataggaacta	ggacccatgc	420
ttcctgtttg	actcttgagg	caacactttt	ttccatggaa	agatctggct	ttcttacaat	480
ggctataaaa	cctttgaaaa	agcactgggt	ctggaanact	ggngtactn	gcttggaaat	540
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<210> 9047

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9047

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gcaggtggng	tgctggtatt	tgatgtgctt	ntagataatt	ctttggcaga	taagaatgaa	180
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tgcaattcca	aatgttgagc	cttccaaa	aggcttgggn	attgctctgc	agccaccana	300
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gcccccccaa	atttcaagat	gtactttatt	attntaaaag	tgcttaagag	gaanganaga	420
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<210> 9048

<211> 566

<212> DNA

09629459.072800

<213> Homo sapiens

<400> 9048

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gccaggccca	ggaccagctc	tctcctacac	tggaccaat	ttccttctga	tcacagaact	360
ggtctggatc	aagacaatgg	ggaaaactgg	ngtgggaagct	gtggccaggt	gaggcaaccg	420
ggcttcctgg	taaaccoccc	ggcttttttg	agcccanat	gggcacttta	ccaacagggt	480
tgggtaaaaa	tgttacngag	agctttggcc	acctngggcc	ctttgggtct	aaaannaagg	540
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<210> 9049

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9049

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ttacaagcat	gcaccaccac	accagctac	ggtgttttct	ttagggaagc	tatttcatca	180
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<210> 9050

<211> 565

<212> DNA

<213> Homo sapiens

<400> 9050

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tgggactaca	ggcgcccgcc	accatgcctg	gctaattttt	ttgtatttta	gtagaaacag	180
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gcctcccaaa	gtgctgggat	tacaggcatg	agccaccatg	cctggccaag	agtggtttct	300
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<210> 9051  
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<212> DNA  
<213> Homo sapiens

<400> 9051  
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<210> 9052  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 9052  
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tttgg 545

<210> 9053  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 9053  
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009220.69462960

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<210> 9054

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9054

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ggaagccgag gaagaagggt agactcccc ctttgcaggg gtcttgactg agtacttccc 420  
accataggca gtgggatacg catgctggtt gtaattgtag ttctgatcgg ttttgcctgc 480  
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<210> 9055

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9055

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<210> 9056

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9056

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<210> 9057

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9057

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cttctcctca	cagtatgtat	gaaagtcaaa	ctggatcatca	gngattttct	ctcaatctca	180
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gcacatttgg	agttgataaa	ctggctgctg	ggtccaangg	cctgggccta	atccatcccc	420
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<210> 9058

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9058

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acaaccacaa	aaagtaaaaa	ctttaaacaa	acatgaacag	gatttgtttt	tagggcacac	180
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aaagagacag	gctgagctcc	acacaggcaa	gatgactaac	agggcgacag	gacagtcaca	300
cagggcggag	tgccacaccc	ggctataatc	cccagattcc	actgcagagc	tggttttggt	360
cgtaggaggc	acacaaagaa	aggtgattca	ggcagacatt	attcaaagct	acttcgtcgn	420
gtaccattgg	aataatgggt	gggnaaactt	ttgggctttg	gatttttttt	taagttttac	480
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<210> 9059

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9059

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tttttgacct	tccatacagt	caggttcctc	ttcagtgtgg	atgtttccta	acgaccaagt	180
tcaagggtct	tccaacatct	ctttcactca	tgggacttct	caatgngtgc	tttgacatgt	240

tcccaaagng	gaagctaaaa	acaaagaaga	atctccacac	attttacatt	cataagattt	300
ttcacacttg	tgagatcaca	gctgaatatt	aaggtataag	gcagagtga	aggttcaaca	360
catttccttac	agccagangg	ccgtgcattt	atatccaagg	gctcacaagc	tcaanagggc	420
cccnggaaaa	aatggaaggt	ttttcccctt	cttacaatta	tagnanttnt	nttcagcatg	480
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<210> 9060

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9060

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ctgggactat	aggtgtacac	caccaagctt	ggctaatttt	tcatttttca	tagagatagg	180
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ggcctccgaa	agtgtctggga	ttataggcgt	gagccactgt	gccccgccga	tttatataatc	300
ttcttacatg	atacatctta	ttatcaattg	acaagctgnt	cttttacttg	aaatttactc	360
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<210> 9061

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9061

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aggaaggaca	gcagtgcctc	caggctnttg	ggcatnttca	catgtttcta	gataaaggac	360
aagctcaact	ttggagcctc	tggtaggcag	aagaaaggag	gcaagggaag	tatggcctgg	420
gctttaaaan	acccggttnt	ctnggatgga	tccccagatg	acnaaaggca	aggttcctgg	480
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<210> 9062

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9062

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acattttgtt	aaatatattaa	aacttaattt	tcataatgaa	aattttttcaa	gatagtctct	180
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taagaagctc	ttttctactc	tatactaaaa	aattcaaatt	tatgaatcag	ccagtatccc	300
ctaagtgact	atcttgggca	aaactagtaa	atgcccatc	tgaccacaat	tattataaat	360

aattaacata	ttacaaacat	ataacttttt	tacctgtaaa	taccataaa	ttaggtaaaa	420
tacaaaaact	ccagcaacac	atatgaaaaa	ctggagnagg	tttggtaaac	ttgctggaga	480
ttcatggcca	ggtcccacaa	cggnnggcaac	tggcttggat	gnggggggga	catttggtng	540
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<210> 9063

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9063

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tacaggcatg	tgccaccacg	cctggcta	tttgtatttt	tagtagagac	ggggtttctc	180
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caaagtgtcg	ggattacagg	cgtaagccac	cacgcccagc	ccatatttca	gatttttaaa	300
taaccactta	cttaaaaaaa	aaaaaaaaag	aaaaaagaaa	ccacatagtt	gtgattcaag	360
aatcttcaaa	tctatgcact	tcaaactgaa	gcaaataaaa	tacgtaaaaa	tgtcgagtta	420
atcttcttgg	ctctttctna	aatcaaatta	caaactctta	acttcnggat	tagtttccca	480
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<210> 9064

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9064

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agtaacttac	aaaaagaaaa	aaaataaggc	agcttcataa	cacaattatt	cttttacact	180
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caaagtggat	agtggcttgg	gggtgcttag	acagtgttat	cgcttgggac	ctggagtcct	300
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ctgcgtctct	aagangtcaa	agtcagaacg	tcacttntct	gccggctgct	gggctcgact	480
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<210> 9065

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9065

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aaatgttatc	cagagccatt	ttagacaacc	aatgtatctt	aagtacaaac	ggtaaaaatt	180
cacattccct	ttagtaactc	tccttccact	tagaacacaa	tgaacttctt	aggtaggcag	240
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agaagtgatt	agaaaggata	tgcattatta	ataaaccata	tgctatgtga	gtgttaggtt	360
cccacgaaat	atcttactgt	atattttaaaa	aaaaatccct	tctcaagggc	actgctttca	420
ttcaaggact	gatttcatta	cctacttcat	tatcttttat	aggggaaatg	ctccntttca	480
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atnttagtgc	ngg					553

<210> 9066  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 9066						
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gcaacctccg	cctcccgggt	tcaagtgtat	ctcctgcctc	ggcctcccaa	gtagctggga	120
ttacagacat	gcgccaccat	gcccggctaa	ttctgtatct	tcagtagaga	tggggtttct	180
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ccaaagtgtc	gggattacag	gcgtgagcca	ctgtctctgg	cctgggtctc	ccattttctag	300
ctgacttttg	gtgacacaag	acagctgagc	acatgcacct	gcgcccgcct	atgcacaaga	360
ccctcctgca	accacagcaa	aggagggagc	caggtgtcaa	ccctgaagga	cacaaagaat	420
gggaaagggg	aaggccgcan	tgggagaccc	gtggcatttt	cngagagatc	cgggatgaac	480
gtncaggaac	nggcctttgac	tnctaagagg	aggggttccc	nccaagggga	agggggtttt	540
cttaa						545

<210> 9067  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 9067						
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gcgcaattag	aactcactgc	agcctcaacc	tcctgggctc	aaacaatcct	cccacctcag	120
ccttctgagt	agctagcact	acaggcacac	gccaccacac	ccagctaact	ttttgtatct	180
ttttagtaga	gggtttcacc	ttattttctc	ggctgggtct	caacttcttg	gctcaagcaa	240
tccacccgcc	tcagtcaccc	aaaatgctag	gattacaggc	gtgagccatt	gcgcccagcc	300
tcaaaactct	tctacctaaa	atcaccttca	gagccatgct	agaaaattag	tatcattcct	360
ttacaatcgg	aatccaactt	ggccactaaa	atgtttcctt	agacttgggc	ctaaatgatt	420
tttggattgt	ttcaaaacct	gaaaaacacc	ttcacaggat	aaagattaaa	gaatgggcca	480
ctggatctga	gaacatttca	aaaagaagtt	ggacttttaa	gcttttgcca	attcngggga	540
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<210> 9068  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

<400> 9068						
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000220" 0940960

cacaccacac	acgatcgggt	ataaaacaca	ttctataaac	acgttctgat	gcaaactgtg	180
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gggacaggag	gtcacagccg	actttaaacc	gcaggttaag	tagaaggttg	cagggtcaaat	300
agaagttccc	gtgtgattgc	atcacccaac	ggcactgttc	tgatcatcagg	aaatgctgag	360
tgcccgccgt	ggccgggttg	gcgcgggcgg	tggtcagacg	ctgctctgga	gctggctatg	420
gcaaagaaga	ggacgcccag	cacctgttac	aggagcccca	tgatgaagta	ttgtanccgg	480
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<210> 9069

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9069

aagaagtgca	tattctttta	tccaggaatt	actcaagaaa	tttatacatt	ttttaaaaag	60
atcaccaa	at	at	at	at	at	120
cctgtcctat	atgcgctcta	ccagatgact	caattatatt	ccatccatcc	atggaatcct	180
agacaatcat	aaaaggacat	ttatgttaac	atggaaagtg	aagatacgct	ttgaagaata	240
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aagtggcaaa	taaaatttna	tggtaaatat	tccgcttccg	gggaaataac	cccatntnta	540
nta						543

<210> 9070

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9070

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ttactgtact	agggacattt	gtggcttttc	cacaatgaga	cttagtagag	aaatgacagc	180
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aaagtataca	gtctgtacag	ctcccccttat	aatgctatta	cctgatgatc	ctgactacaa	360
gttgggaatta	tctgcatact	tggcaaaaatt	caagtgtggc	tgccatgccc	tcgagagaat	420
gagcagcaaa	ccagcccagt	cctaaattcg	aatagcagct	cttaaagaga	atanggagct	480
cttgggaangc	tttcttttang	actggatatt	caatttctgg	gcttancccc	nggggttaatt	540
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<210> 9071

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9071

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ttgttataga	gctatgttca	gaaagtggag	actttctgac	tcactgtgag	ctctgctgta	120
tctatgcgct	ccctggagag	ggagcaactt	gctaaggtag	agtcctgtcc	attggcatgg	180
atattttattg	ttccacatgt	tgggaaaacc	atgtgcaata	aaaatcaaac	atatgaaaca	240
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tggagtttcc	taattcacctt	caggaaggat	ttgttgtgtt	ccgtctttat	gctgtcacctt	360
gcaaacactt	ttgcttttgct	agttcttgta	ttagatcttc	atatacttgc	aaaaagaggt	420
cctcttcaga	ttttgntcca	tccaggtcac	aacttccatg	tgatgtcctg	catttcttgg	480
ctgncctttag	atcctgggca	cacatnggcn	ttaaaagatt	cccgaagct	tggaggntaa	540
aaanccttt						549

<210> 9072

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9072

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tagcttttca	ctatatagag	taaaaacatc	agaaatcacc	ccaagagaaa	ggacatacca	180
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ggcgttgacg	ttgntgtana	aagtcaggcg	ccanatgctt	nccgtcaccg	gcnggagccc	480
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<210> 9073

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9073

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ttttgagaca	gggtcttgct	ctgttgccca	ggccaggctg	gaatgcaatg	gcatgacctc	480
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<210> 9074

<211> 565

<212> DNA

<213> Homo sapiens

<400> 9074

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aaaaaaaaatc	aaacacacaa	atactggaat	attaaaagac	aggctcctca	tttcttctct	180
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<210> 9075

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9075

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tggtgtacat	ttaatagact	gacatatata	agcacataaa	aatcatttta	cgtaatacgc	180
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ccatcacttt	catcatcttc	tgtctctgct	gctgtattat	ttttagggnt	gcctccnccn	300
agcagtggag	tnattgcttt	gttccnagca	tttgtgctag	ctgaaactcc	ccttcttctt	360
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<210> 9076

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9076

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agggagagag	aggttaaata	ctttaattac	taacttgcaa	aaagatttcc	atttgaatat	180
ggaaacaatg	taaaggggtc	cctaattttt	gtgggactgg	aatcactcca	gaggatttaa	240
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ttctatttta	aaacgaaaac	catttacttt	tgagtcaaca	ggcatgtgac	anaaagtgtc	480
acatanaaan	aatttcccca	ccaaggactg	cctggatgtt	acttgaaaaa	cncaggtta	540
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<210> 9077

<211> 343

<212> DNA

<213> Homo sapiens

000220" 69462960

<400> 9077

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caaccatcat	gttcttaaaa	ctttgttnact	tgcatgcnaa	tatatggatt	cnatatagta	120
caaacatttc	cctacatcaa	tcaccttcag	ttggaaagt	cctctccnta	aaaaganatc	180
aaaactcacc	ttccaggtag	tgattactgc	gttagtttca	tgaggagaaa	aaaaatattt	240
ataaatgtga	aattgcctct	aaacaagggg	nagggtgcatt	tcntcnctt	gtttaaaaca	300
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<210> 9078

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9078

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acgcctgggc	taattttttg	tatttttagt	agagacgggg	tttcaccatg	ttagccagga	180
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aaaacttanc	tagcactaaa	anaaatactg	aattttcccc	catagtatat	aatattttat	480
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aaggaaanat	tgattacctg	ac				562

<210> 9079

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9079

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gctgagacca	caggcacatg	ccacgactcc	cagctaattt	tttttttttt	ttttaaatta	180
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aacccanatt	canaaaggat	atctgtctag	agaaaaatct	cattcagtga	atttaatact	360
tacatacaac	tatgacttgt	aagtccagaa	gttttagggg	aagaaaacat	gtnnccattg	420
tncccaatgg	agaattttaa	gctcaatgtn	ttttggtggc	tccaagatca	agccaccatg	480
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<210> 9080

<211> 347

<212> DNA

<213> Homo sapiens

<400> 9080

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ttcagtcaaa	atagttat	cacagg	accacta	agcttact	ctacotttta	120
aattaataaa	gttacagt	gccacatt	ttgagtc	ccaaaat	tagagaaaca	180
acacaaactc	agacatct	gtcagatc	attanag	aatat	atacttttat	240
tgtatatgac	tagttttc	naaaact	ccanaan	cagtcttc	tccanaaa	300
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<210> 9081

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9081

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tctgtgtctt	ttaattgtgg	catttagccc	gtttgcattt	aaggtttaata	ttgttatgtg	180
ttaatctgat	cctgtcatta	tgatgctagt	tggttat	gcctgttagt	tgatgcagtt	240
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aaaatcgctc	agcatttgct	tgtctctcag	gattttat	ctnctttgct	aatgaaagct	420
taattttggc	tggaatatga	aaattctggg	ctgaaaatcc	tttccttaan	aaagttnaat	480
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<210> 9082

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9082

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ccctanagag	tggggatgtg	ggaaacggag	ggtaattaat	tcttttagtca	ctggttcact	180
gctgaatagc	cttggtcagt	tttggctctc	tcctatttta	gggggaaaaa	tatttttggt	240
tctttttttt	aaaaaataaa	atgttcgcac	aatggggaga	aaattgcttt	aagtgttaca	300
ccttagccaa	cagagcccaa	actccgtgtt	tccgttcttt	ctctttcggt	ttctgctgaa	360
ggctgggtgac	acactggcct	cttgtcagtg	gctgccggca	ngggccagga	aacaaattna	420
aactgcanca	cagctcanto	caaaaanccc	tggc			454

<210> 9083

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9083

acataaatta	accattttat	tataggccag	tgatgtctca	aagagtagag	gagcgtctac	60
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ctggaaagaa	agattcagtt	tccaacataa	ttaagcatgt	taacatagaa	aatggcaaat	180
aagtaaactc	gcctcgtttt	tgtgttaaag	tcgcttccca	aattttccta	gaaagaatta	240
tactgagata	gactgctcta	ccaatacttt	gctgcagtca	atccaaagat	ctaaccaaca	300

ttagattact	cctcggaaat	tagtggcttc	taaactacat	gatggcatcc	tttaagaagc	360
catgccttca	ggatcttgca	gaattngaca	tacaatctca	tgcatctgat	ttctcaaccc	420
agagttgctt	ttttttttat	aagttactcc	agtttgtgga	caagccangc	tttaactccc	480
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<210> 9084

<211> 331

<212> DNA

<213> Homo sapiens

<400> 9084

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tcgggaagtg	cacacaaaacc	gttgtctttc	ctttttgggt	aaagaaaaaa	aactttgtna	180
tcaatatccc	gctcataant	aaaagtggaa	aanaagaaac	ttgactgctt	tcactgtggcg	240
ttttggcatc	tcctctccca	tttcatatgc	acagtttatt	tgggtinatgc	taccgtcacc	300
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<210> 9085

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9085

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ngcacgtgcc	actatgccc	gctaactttt	gtgttttgag	taaagacagg	gtttcaccat	180
gttgccagg	atggctctga	tctcctgacc	ttgtgatgta	actagtattt	cttatgccct	240
tattttgtgc	taggcacagg	gcctcacc	ttattggcac	tcggtaagga	ttcntgggat	300
taatganaag	ttaacctaaa	tcttcaccaa	aggcccctga	ncttcccctc	gattcacata	360
caanggactg	gggctctgaa	aagtgggctg	tgatgcgccc	ctggaaaacc	cacnaatggg	420
cctgcanaac	tgattgggaa	ggttcatgca	nggnca			456

<210> 9086

<211> 304

<212> DNA

<213> Homo sapiens

<400> 9086

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ncagggaaca	gtgtctctga	agtgggtgctg	gcttcacagc	tgattgcggt	tccgcttagg	180
gatgatcttc	cggtaggttc	tgcgctctga	aatgttgcgc	ttcaccttgg	cgttggtggg	240
ancctcatcc	tggtgcangg	acgggctcga	ntgggacttc	ttcangctga	ncttgggctc	300
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<210> 9087

<211> 440

<212> DNA

<213> Homo sapiens

<400> 9087

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gaccttcaca	gaccatgcta	aaaccctctg	aggaagtgcc	tggatgaatgc	tctggttgat	180
gagattcgag	ccattatgtt	accgancagt	gtgcttctta	cctataattc	cactgtcctt	240
gctttccagg	gtggaactag	ggctgctaata	ggtctcacag	ggacttttgt	tggctgccgt	300
cttgctgaca	cancatttca	agggtgaaca	ggggctatcg	gtgctaggan	atgcgggtgct	360
gcttgttagt	gtggagcaag	gactgatgcc	ttgactcana	nctgtgcaca	tggtttcatt	420
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<210> 9088

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9088

gtttctcttt	tgcactgtta	ttttattttg	tttagtccat	atattatata	aaacataaca	60
ggaaaaatga	acgaatttat	aaaaataaatt	gaggtgtttg	gatgaaaaaa	aatacaanan	120
ctttgccttc	atgtctacag	atctcttaata	atattgttgg	tcttgacact	tagatatcaa	180
ataaagatat	ctagcttgac	acaaaaaattg	gtagctgcaa	ggtaaagctg	tattagtttg	240
atgatgggcc	aggaaatgat	atatttttcta	aattttgtcc	ttaaatattg	gctgtaacaa	300
atgctgatata	agcaaaaaagt	nagcttctat	tagacagcaa	ganggaaact	tgagtgaatg	360
aatgcaactt	acctccaagt	cctcttaaaag	gaagtaaaaa	aataaataact	gtgttttacc	420
agtgccccc	nccaancatt	attctnagcn	tn			452

<210> 9089

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9089

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ctcgtgatta	tttctagcca	gggtgaagct	aaggaaagta	gcagtagggtg	gtaggatcag	120
caccttggtt	ccaggcatca	cgccagtcata	tttattttcca	tcatcatcct	tgtgaaaaaa	180
tggaagtctg	ganaggtgaa	atgatgaagg	caatctggcc	acaaatcttc	cttctggatc	240
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aatttgggan	tccgttcttc	cctgaagctg	ccatgccctc	tanccgggtcc	cgggttgga	360
tattctgggc	atancacatc	ccttcaatgg	ccatcccana	tgcaatgtcc	acctccgttc	420
ctcggttaat	gggctacttt	gcccacccgc	acngcaattg	ggggctgggg	caagatctcc	480
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<210> 9090

<211> 588

<212> DNA

<213> Homo sapiens



<400> 9090

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gttacacatc	tgaactgatt	ggagttacag	aatcatatct	cctttttgca	tttaacaata	120
tatacaatat	aaaataaata	catttacaca	aatggacatt	tgctggagca	cacagtatgg	180
tacacatcac	aaaaatatac	aattgattgc	tttacagatg	tgaagcccat	ctacagctat	240
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ttattataag	cagttttaa	tttttgcct	tttacgatct	ttgcacataa	gactgccata	360
aaatgttttc	ctaggcaggt	aaacaganac	gcttaaataa	ttaaaataca	atcaccaaca	420
cccattttct	cttctataa	aaaaatanca	gttttaaat	ttttatatct	tttatgttan	480
catttaaagt	caaaatatgg	gaataaatac	aacaatctgg	tttgattgaa	acccattntt	540
tctncaggaa	tcccccatcc	tttggttita	attaaaacaa	acccaaaa		588

<210> 9091

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9091

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aagcaaaaaga	ctccttcctt	tcagaccag	tgtccactga	gcttgaggagg	ggtgganccg	120
ggaccacccc	ctaggaaaag	gtgtangaat	agaagcaatg	gcattggcgc	tatantccat	180
ggggangaag	tgctgatgt	gcctggcccc	taggctggcc	ccaccagag	cgaggagtg	240
cctcagcttc	atcagggtga	aactgganaa	aaanttctga	gcctggatct	ctctgccctg	300
ggtcagcacc	aaaagaaaac	cttccttcag	cagctcccag	ctcttcaca	cagaaccac	360
gcacaggatg	gggagtccaa	tcttgccctg	gaacaagacc	gggtcaatct	cgggcaacac	420
tgctacnatg	tntctgccc	ncatctcccc	ancctcctga	aaatatanc		469

<210> 9092

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9092

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agcaattaaa	ttcttaaagt	agggacagaa	caccaacagg	ctctagactc	cggaanagct	180
gtaagccgac	aaatgggcat	tgttttgctt	aacagtttta	gcttcaatgt	aaatatatat	240
tattacttag	aatattagca	tctgaactat	ataatgacta	ttttatcatt	ttacttgaat	300
taaaaccaga	atttctggaa	cttccaaaata	gtcttttaaag	tttttcaata	taaacataaa	360
ctaaccctta	ttcctctcta	catatcaa	gtgaaataac	tgtcacaata	tatcagcatt	420
ttcacagaaa	gatgtttaag	gcttctggca	cataaaatgt	gtaatttccg	tgtgacaagt	480
cntaattatn	taccgaaaat	attttaaatt	atttgtaaaa	ttaattcnta	agaattanaa	540
aaccagaatt	ncccg					555

<210> 9093

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9093

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atgttaaact	gaattacatg	ttatcttctg	attcttttca	atgtagacct	aaattttcac	120
atgtatcagt	aaacacaatt	tatgttctta	ttaacatttt	tgaatctcac	ttttttgcat	180
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ctgggcatat	gccactcaaa	gtgagtatgt	caaaagatca	gttataaagc	cctttttata	420
gtcttctaca	cagttctctt	aaaaggntac	taatacacaa	tgctgctgct	ataaggacca	480
tgcnattaaa	acagtttggc	taatacaata	catgaactaa	ttcaanttgg	citttttaatn	540
ttaggaaatt	tgaataacctn	ccaatgaatt	ttaaaccctt	naccccaaac	citttaaantt	600
gccaaaaata						610

<210> 9094

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9094

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cgcccgctc	agcctcccaa	agtgtctgga	ttacaggcat	ganccactgc	gccccgctg	120
cttctgcca	agttaaacgg	catgctaagc	tctcagctcc	ccatgcccaa	gtggacttga	180
aaggtctacc	ccagccctcc	ttccacagcc	catcctgagc	aggctgccta	ctccaggcag	240
gccccaggct	gggctggacc	atttaatcct	cncagccctg	gtaaggctga	natcacggat	300
cccacttcat	aantggaaaa	aactgaaaag	ctcagggggt	gctgaaatct	ctactctaag	360
gtttctttct	ctcaaaattt	ggtcgggaag	ggggtctnct	tntctctggg	gcacttttct	420
tatcccnccc	nangggc					437

<210> 9095

<211> 320

<212> DNA

<213> Homo sapiens

<400> 9095

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aaaaaatgct	agtttctccc	tgagcctcaa	aaaanaacag	atagaagtta	caggagggttc	120
atctcacaa	aggcattttt	actgaaatac	taggaatttt	ttcaatacaa	tcagttagaa	180
atacacacaa	attacttgaa	aaaaaaaaaa	gaggaggcca	gataggagct	caccncttg	240
tccaanaaca	nctgggtccc	cccngcaggc	tccaccgctg	agggtcctga	cattatctgt	300
cagcccctgg	cctgctcana					320

<210> 9096

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9096

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aacaacctcc	gcctcccg	tgcaaacgan	tctcctgtct	ctgcctcccc	agtagctggg	120
actacaggcg	cgtgccacca	tgccctggcta	attatttgta	tttttagtaa	anatgaggtt	180
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gtgatttgcc	agatttactt	aatcnaggaa	tatatcttng	anggaacctt	ccanaaaatt	480
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<210> 9097

<211> 611

<212> DNA

<213> Homo sapiens

<400> 9097

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aagtttcaag	aattgtgcaa	tgaacacccc	atatagcctt	cacttagatt	catctcatca	120
attaatgttt	catcaaatat	gttctctctc	tctctctctc	tctgtctctc	tccatgtgtg	180
tacccactg	aaaatctttt	tgcagaacta	tttgggagtt	ttagacagct	ttgcccccta	240
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gaagantaca	gaacacttat	gaatggaatg	tgttgaaatt	ggggtggctg	aatggttctc	540
ncgatcagat	cagtttatgc	agttttgggg	agaaagcttc	nnaaatnata	tgtgtgttct	600
cctggctncc	c					611

<210> 9098

<211> 606

<212> DNA

<213> Homo sapiens

<400> 9098

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tatttgcttt	gtgtattttg	gggggaacta	tttgggaatta	aattacacat	ttcttgaagg	180
cattcaccta	tataatccag	catctatctc	ctaagaatga	ggacattttc	ccatgaactg	240
cagtaccgtt	aaatggctat	tanaggaaatg	gttggtcttt	gtgagggtct	cacgtccagg	300
aacctcatca	aagtgtgcta	ggcccttanc	agagagggtg	gaacctgctc	gccggctccc	360
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ctttgtgggtg	acaaagctat	ggggancctg	ctgtgcatgt	gccaagacct	gcagggcagc	480
tccccacccc	ccacagggaa	ctctgaactg	catggttttg	tccncttctn	cttttaataa	540
tctgaanttc	aaataaatct	ttccccaaat	cntctccnat	tagaaacctg	aatgccatct	600
aaaacc						606

<210> 9099

<211> 597  
<212> DNA  
<213> Homo sapiens

<400> 9099  
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acctttttcg ctgttataaa caacttcatt tatagcataa taaacatact ttcagtcaat 120  
ttcttttaca tctaaagacc cctgaactaa attttatgtt gtgtcttaag tatttcaaaa 180  
cccatccatg tcaaactgat aatttttacta ttgcttgata ctatgttatt tcccttatgg 240  
gtaaaacttc gatcagtggc caaatctgaa aagcaagaan acactcttgt catctgaaca 300  
gttctattag gatgttggtt gctttttgaa aatattatat actaactctt aaattatatt 360  
taaattgccag ctacccaatg gtgccagaaa nattattgca attgttttta cccaagtata 420  
atttttaaaa taaaatcatg ttgcattgca tttttctaaa atcattagat ttataattga 480  
ataagggtta acttacaatt ttttttaggg ccccaaaaaa aaaaaaaaac ttttttgaat 540  
nccccctatt tntttctccc naaaaggtag ggtatttttt tgtttaacaa cccnctn 597

<210> 9100  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 9100  
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ctctgtttgc aattatacat gccttcaaag tcatttgaaa gtaagaccat ttcctttggc 120  
aggatatctg tataaagtaa ctttacaaca tatgtttctt gaacagaaac tttacaccac 180  
tgtcattatg ttacctatag anacaaaact actaacacaa gtaatatggg cttacaatta 240  
taacacaaac ctgtgagagg gcatgataaa attaaatttt gattgccttc ttttattatt 300  
atcactacta ctgtctgctc acaaattctg tggccanant ccatttcaaa tccttctaag 360  
antccacttc atganttaaa catatacata tanaacaaa 399

<210> 9101  
<211> 477  
<212> DNA  
<213> Homo sapiens

<400> 9101  
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caatactgta ccagttttta aaaacctgaa ccanaacggn ttgcgattct agtacactta 120  
cttacttaaa acaaaaattg cttagataaac aaaactatac ttcaagttgt tttanaaaca 180  
gttctgctgc aggaacatac aaaggaaaaat gacccgttgt gcttctttta aatcgaatga 240  
nagtctcctc tagggtcctg ctgacaganc ccccccagcc tccgccaggt gaggtgcaca 300  
gggcccactc caggcaccag ctccccccaa cttggcttct ctggtttgct gaaagcatca 360  
tccantccac actatgttta acagtcctan tcaccacggg gantaaattt ttctgaaggt 420  
ctcatccgtg gaatccnacc gtacataata antttacccc caatcccnat tgaatcc 477

<210> 9102  
<211> 366  
<212> DNA

<213> Homo sapiens

<400> 9102

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gaagctgagg	cangaggatt	gcttgagccc	aggagttcaa	ggccagcctg	agcaacatag	120
tgagactcca	tctctaataa	aaaaataaaa	taaaaataaa	taaaaaatac	aactaatgga	180
aagggaaga	aaaaaaaaag	aaaaaaatta	aaagtgattc	ggagcagtat	tcctgcaaga	240
agctcccggc	gcatgtatat	ttacagaaaa	tatgtacatg	cagcaggccc	anaggccacc	300
anaaggcaga	gggcttctgt	aacaattcaa	gcctctgggc	ttgaaccag	ggaatgggtg	360
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<210> 9103

<211> 440

<212> DNA

<213> Homo sapiens

<400> 9103

gtgggtaaca	tcttgattta	atttacaaat	aaaaagccaa	aaccctcaat	gcaaaggaaa	60
actgcagttt	acacttattc	tgganatcat	ttttaaccac	agaaaatgtg	cccctgtagc	120
atgtttttta	atggcaagt	ctatgattgc	ccanacatcc	ataaactgct	tgtatggagt	180
aagaaattca	taaatgaana	aanatttgtt	ttctgtcttg	tttctcctag	gtcacgaaca	240
ggatatttcc	cacaaaatgt	tttgacctga	aaggaagtat	gattccagta	cttctgggtc	300
taactcttct	gaaattacac	tgcaagctga	aacttcnggt	tacttcagcc	acattttctt	360
ttatcaccca	ttttccatgt	ttttttggct	taaaaccnc	ctgctgtccc	cccnttcccc	420
ccgttcncng	tgttcganta					440

<210> 9104

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9104

gggcaaata	ctaattttat	ttttttcaca	tattaaaacc	cactaaaaat	aaccattttt	60
ctaactaacc	acaataaaaa	ttagtanaaa	aagtactgct	gctttacatt	tctccaaatc	120
tcttcaatgt	ctgatgacag	acnaaagctg	gaatcttgta	tctgcttttg	cattcagcct	180
attacaatat	cacaccanac	agcctcttga	aaactcctct	gcatactcat	gaaaaaatga	240
gtgaaaaana	taaatgatgg	ctgggcgttg	tggctcatac	ctgtaatccc	agcactttgg	300
gaggctgana	tgggcagatc	acttgagctc	aggagttcca	gaccagcctg	gccaacatgg	360
tgaaccccg	tctccactaa	aaatacaaaa	attaccangt	gtggtggtgg	gtgcctataa	420
tccanctac	tcngggaanc	tgaagtagaa	aatgcttga	accagttgg	gggaagntgc	480
at						482

<210> 9105

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9105

09629469.072800

aataaagaca	aagtcttgct	atgttgccca	agcttgctc	aaactcctgg	tctcaagcaa	60
tccttctgcc	ctggccctcc	caaagtctg	ggtattacag	gtgtgagcca	gcactcctgg	120
cccatcacag	tcttaaaacc	aaaagtctg	tgtccgagga	aaaccangag	tgattgggtca	180
ctctatttat	gactcatagc	acttacaggc	tacttcggca	gggacttggg	gtacccctgt	240
tcttgatgg	cacatcatta	tcagcaacag	gaacagttct	ctganccctg	gcccctggag	300
aatctctagc	ttagctatatt	tagacttggg	gtcaaaaaaa	aaaaacctct	tgcccaactc	360
agcaacacca	gacaggggcc	tcatactctg	gctcgtggaa	agtactttta	taccaanccc	420
tctcctaagg	gcataagaac	caacattccc	attctgggga	aanaaaaaagc	agtncccctt	480
ggacccaagt	actgggtcct	gccgggaatc	ctccccccc	aggggcnnng		530

<210> 9106

<211> 511

<212> DNA

<213> Homo sapiens

<400> 9106

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caaccttcac	ctcttaggtt	caagcgattc	ttctgccttc	ccctcccaag	taggtggggac	120
tacagccact	acgcctggct	aatttttttt	gtttttgtag	ttttagtaaa	nacagggttt	180
caccatgttg	gccaggctgg	tctcgaattc	ttgagctcaa	ctgatctgcc	tgccctcagcc	240
ttccaaagtg	ctgggattat	aggcataaag	ccactgcgcc	tggctaanaa	aatttctttt	300
tatattagtt	gagggtcata	aaacaaagtg	aatgcttatt	aaagangtag	aaaaaataaa	360
gtcattaatg	cacacagagg	ctgaagattg	tgattttata	naaatgtaag	tcataatang	420
aatgattatt	actaacttcc	tangtatacc	aacataccag	tgcttacaga	tttcttacta	480
antcntgcct	gttgttttac	cnccttacc	c			511

<210> 9107

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9107

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gcaacctcca	cctcccagggt	tcaagtgatt	ctcctgcctc	agcctccgga	gtagctggga	120
ttacagacat	gcaccaccac	gcccagctaa	ttactgtatt	ttttagtaaa	nacagggttt	180
caccatgttg	gccaggcggg	ttttgaactc	ccgatctcag	gtgatccgcc	caccttggcc	240
tcccaaagtg	ctgggattac	aggcatgagc	caccgcaccc	ggcctatatt	ttcttaatta	300
catatgtaaa	catatgtgtt	ttctaaatac	atatagtatg	tatgtatgct	gtatctgtat	360
ttctatctac	acgtatactc	aatttgttat	tcggaaactc	tatctacatt	ttgatcagtt	420
ctatgttatt	aaataattgg	ctgctgtccc	taaacaaaaa	tataaggtaa	aaaaccgaaa	480
aaaaaatntt	taactnccgn	aaaaaacaac	ttttttaatt	tttgacnctn	ccaat	535

<210> 9108

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9108

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tctttattat	tgaacactg	catttccaaa	ccacaacctt	atttatccag	tctttattat	120
tgaacactg	catttccaaa	ccacagtgg	ttctactaac	aaagtgtcta	cacttcattt	180
ctccattaat	tacaaacatt	tcagggtaat	tacacttaac	actttatfff	gtatcagctg	240
accctcacca	caatgcagg	aggtaggcca	tcatgccctc	tatttgffff	ccccctaaag	300
gagaaagctg	anaaacaagt	tttttgcaat	tatacaaata	tttggtgaaa	ttcagaccaa	360
atctgagagg	actactgatg	agttcttttc	actatagaca	ttcattctat	ccaagaaatg	420
gggaaaaaag	gagaatggaa	gatttcttcc	ctgctttaat	tggacaattg	aaatacnaga	480
atgntgaccc	aaaatacccn	caaaattggt	tgaaaaattt	aaaatttcct	tttttncccc	540
cgn						543

<210> 9109

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9109

gagaactggt	aattgattac	tttatttcat	ataaaagtta	cattgaaana	anangttgaa	60
aagtcaagta	tacttgattt	gcacacactt	gccaagtctc	acaggattca	accacttgga	120
taattgtfff	attgataaca	ggatatacat	attaaaagcc	tcacactgaa	gcccacacgc	180
atgtccaacc	cagacaacaa	tgtgcaaatg	aatatgcana	acaatctcgg	aaactggcgt	240
ctccagnatc	accacactt	tgtccctctg	gctgtgacgc	agctcttccc	ccaacggcgc	300
acacgcttct	gcggtgacca	agtccaactt	caaacccctt	gcaggtttgc	tcgcttggct	360
aggacggtgg	ctcangtang	tccctttgtg	gttttgcata	ancagtggta	aaaccctgat	420
tcngatgggg	tnca					434

<210> 9110

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9110

acattattgc	acagagattt	ctcatcaatg	ttcttcagtt	tttatgtctt	ttcctaaatg	60
tgaataagtg	ctatggataa	aatacaaatg	tagaaaataa	cagcagcatg	atttgtcaaa	120
gttaatccct	ataatttagt	aagaaaaaat	ggatataaac	aaaataagtg	ctctttctaa	180
actgtactaa	atfffcaaaa	atattgtfff	aatgcagtga	aggtcctgaa	aagcctattg	240
aaagcgatgc	tgagtctctg	tttcaaaaagt	gtcctgtttg	ggttttcttg	gtgaananca	300
gaatttcaag	tgaagtaatc	gacggactaa	tttaaaacaa	aacagccctc	ggcttcccta	360
ttggcctgtg	agggcaccgg	ctccggggacc	ctgacctggg	aggcancgaa	tgggtgggggt	420
gcctggcccc	catctacacg	tacacaggct	ggcagccttc	catctgatcc	accanacag	480
aactttctaa	tcttaactcc	cnaccgcgtna	aactctgccc	ctnaaagntt	ttggctccaa	540
aggggt						546

<210> 9111

<211> 435

<212> DNA

<213> Homo sapiens

00629469.072800

<400> 9111  
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ggagcaggaa gtgaactcct ttctcagata atgttctcta aatcccaaca cgttccatgc 180  
tcccggctct tancaggtag ttggtggaca cttggttata gcagctgggt gccanatgcc 240  
tgcctctcac tgaggaaatgt gttcagggaa aatgtcnaca ctggccggga aaagcatcag 300  
gctttcacct cactcatggc ctccataagg cgaacgctgt ttgttgactg ctgtcgtcca 360  
ggaaaatnaa cctgtttcct ttctctctgc ccaggaaacc ggnaggntga natctcnaaa 420  
atttcacccc cccca 435

<210> 9112  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 9112  
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gtcaacctat acaattttatt ttatttttcc tataccttgg ctaaacaanaa tatatttggt 120  
gatactgtaa aataactaagc attttcagta aaactggcaa tcaaatacag cttaaccttc 180  
ttctgcgtga caactgagga ttttaattgg aaaagtatta tagtctataa acaggaatac 240  
ccaaaacata tttaaaccac tcgagcactt tgatttttcc atgttctttg catctagatt 300  
gaaacacatc acaggaaatt tcaaagacca acggctgaat atttttcatt tcaacatttc 360  
cagtggcatc ctacaagaga actagcactc acaatgaagt catctgaatt ttctttaaat 420  
cgtaactcat ttttaatttc taaacagggt tggcctattg atttaaataa nanaattatt 480  
atttcataaa aatgaattta ggtcctttga aatttcctgt tgaaatctta tccaatacct 540  
tanttcccgn ca 552

<210> 9113  
<211> 320  
<212> DNA  
<213> Homo sapiens

<400> 9113  
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tctcactatc ttaaggttgt tcgcctgagc ctctctaaag tggtagccca ggccggggcg 120  
gggtggctcac gcctgtaatc ccancacttt gggaagccaa ggcagggtgga tcacctgagg 180  
tcaggaattc nanaccagcc tggccaacct ggtgaaacct tgtctctact aaaaatacaa 240  
caacaattan ccgggcgttg tgggtggcgt ctgcaattcc agctactcgg gangctaaan 300  
canganaatc acttgaacct 320

<210> 9114  
<211> 392  
<212> DNA  
<213> Homo sapiens

<400> 9114  
gtcagacaaa aatttaactt tttatganat ttcagttttt gaaatacaca actcttacag 60  
cacaaacaca gtatttacat ttcaagttct ttgtacaaaa natgtatgcc attttggaan 120

09629469.072800



aatattgttg	anatcatgat	ctaaaataacc	tgtcanantt	actcatggaa	tctgctcttc	180
acaaatccat	tgtattatga	cataaaatat	ggctagacgc	caaggtttaa	ccatacataa	240
aaataactaat	tctcggctgg	gtgcactggc	ttatgcctgt	aatctcagca	ctttgggang	300
caaangcagg	tggatcacct	gaggtcagga	gttcaanana	agcctgacca	atatggtgga	360
aacccccgtc	tctactaaaa	atacnaaaat	ta			392

<210> 9115

<211> 302

<212> DNA

<213> Homo sapiens

<400> 9115

ctacaaataa	agtggtttat	ttacaggagt	tgtctctcca	ggtcccagct	ccctgccacc	60
cccaccccag	cccaggagg	aagaaggcgg	atgccagagg	agctggcaga	ggctgggcag	120
gtcctgagtg	ggccaggcta	ggccaagaga	gaaggcacga	ggccctgggc	gccccantcc	180
cagggcagaa	gccaggcctg	cctggagaag	gcagcacggg	gtcagctctc	aggggtcagg	240
ctgggttcca	cgccgccgca	gctctgctca	taanacagtg	gggcctctgc	gggaanaaan	300
ca						302

<210> 9116

<211> 491

<212> DNA

<213> Homo sapiens

<400> 9116

aggaaaaatg	aaactttatt	actacaaaca	tgagagctgc	atacattcta	aatcaaatgg	60
ttgcaactta	taataccaag	aattaaatgt	gaatcctact	taagaatatg	ctgagctggc	120
cangtgtggt	ggctcacgcc	tgtaatccta	gcactttcag	gctgaggcag	atggatcgcc	180
tgaggtcagg	agtttgagac	cagtgtggcc	aacgtggtga	aaccccatct	ctactaaaaa	240
tacaaaaatt	agctgggtat	ggtggtacac	gcctgtaatc	ccagctactt	gggaggctga	300
agcagganca	ttgcttgaac	ccgggangcg	gangttgcan	tgagcccaaa	tgcgccacc	360
gcactacagc	ctgggtgaca	agggcgaaac	tctgtctcat	ctaaaaaaaa	aatatgctga	420
tccngtcntt	ttgaattaaa	ctctccctgt	gatatactgt	tctctatncc	atttcaaaaa	480
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<210> 9117

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9117

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
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nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
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nnnnnnnn 546

<210> 9118  
<211> 508  
<212> DNA  
<213> Homo sapiens

<400> 9118  
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cccataaagt taggtgtgta gcactacaca ttagacacca agtcatccca accaatatatt 120  
atccatatga acagataaac tgaacaaaaa catagtcttg ataaaacctg cattcacaac 180  
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taataataaa aacaggaatt atatanaaga taaaacacca ttttttactg ctatataatg 300  
tcttgctata taaaacatac cctcaacaag tcaaaatatt taaaaccagt gtttcaaata 360  
ccaaaaatca cagctatggt actgttcagt aactccactc aaataaatgt tagtactgca 420  
ttcttgaaag gaaaaaaact gcanccaagg caagaactct naatttttgc cccaatttt 480  
aaaaaaaanaa anccccctcc tgcaactg 508

<210> 9119  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 9119  
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caagctctgc ctcccgggct catgccattc tcctgcctca gcctcccaag tagctgggac 120  
tataggttcc cgccaccacg cccggctaatt ttttttgtat tgtagtana gacgggggtt 180  
caccatgttg gtcaggatgg tctcgatctc ctgactttgt gatctgcca cctcagcctc 240  
ccaaagtgcg gggattacag gcgtagacca ccgcgcccag ctgcacactg tatcattttc 300  
atttctctcc cttgctgtcc cctctgcctc tgccttgcc tcccatcata tggacacact 360  
gtgcctgaca cacacgctca cataatctct ccctttttgt ttccctagct actcatcaac 420  
ctcangtttt gcggganna aactt 445

<210> 9120  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 9120  
gtacgaaact gagattttta ctgacatgca gatgtgcttt agagttaatg tttctacaaa 60  
aagtttctat aaacaataga aaattttctag catgaagtca caggatgtta aaaatattac 120  
aatgcaataa atacaactac atcctccaca gcccaccca gacaggaata ggcagctatc 180  
aggtttgag ggaaacactc ttgagatcgc cttcacgac cagagaaacc cagancacca 240  
cncaggaaga nggaacnacc cna 263

<210> 9121

008270" 69462960

<211> 341  
<212> DNA  
<213> Homo sapiens

<400> 9121  
gggagtactt tcacgtttta tacgcaaggg cataaaatag aatgttagga aacaatttgg 60  
atttttttcc ctaaaatata ggtgactatg ggctagttta caactttcct tctctcactg 120  
aaataaaaaat acatagttaa ggaataggga cgaatacata acaggtgaca ttgacagtt 180  
tgggcatatt ccttgttact ttctaattctt ganaatcaca gtttgctggt ttagagggtat 240  
ctganangtt ccanataaaa ggcgatggct aaatgctctt aaactttgaa cctgctgga 300  
tgctcttaag ttaggaaan gaaatttata accnaaacct t 341

<210> 9122  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 9122  
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ttagtgactg aattgtatac ttaagtcca gtattttaca ttagtgagac tgaaattaga 120  
ggtaaatttc ttttaacaagt gtaaggctta cctatttata aagaattatt ctgttagtgt 180  
ttaagaaaaa cagatctaga gacaatccag taggctgcat tgtaaacatt atgattataa 240  
atctcttagt actgccatta ttattgacag ttttgtaaan acttgtaaaa agtccagttt 300  
ctcaggaata tgaaaattat cttcagaaac ctggttgggg ctttctcca attcctccag 360  
ccagctgaaa tactgccaaag ctcaactcat gttgcaaggt gatctgcaat ttcttgtgag 420  
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aaancgttgc ttctccccag ttc 503

<210> 9123  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 9123  
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ctgctgangc ctgtccccac ctacaccctt ggttgtcgat ggtgtggaac attgggggtga 120  
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acctgaacca ggggtccaac agtcaggata cccgactcca tccacacagg ggcatggaac 240  
acttggggttc tganttcaaa atttggcaat gtcttgacct gggtttgaaa gtaggtgggg 300  
tcttgaaaaan ctttgggtcca gggttcaaaa tttgaaaatg ctttgctcca agccccagtt 360  
tggggatgaa catggaaaaa ggtggatggg antgtctctg gggttcacaat ttgaaattgg 420  
ccatggatgc tctggcctga accccatttt ggggctggat gtaggtgctc ttggtcnaa 480  
gttccaagct ggggaaaanc ctttccaag ttattggggc tggntttaaa ganatcctaa 540  
ttttgggcct gnc 553

<210> 9124  
<211> 544  
<212> DNA

<213> Homo sapiens

<400> 9124

cgttnttttt	ttttttaaac	aattgattta	aatccatgtc	attttacttt	atatgtactg	60
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agttacctcc	accatcatcc	tcttctgtct	caaactctgg	caaagggtcg	aanggtcccg	180
tctgaataaa	tctctgtgan	tttatcttcn	aaagtacaat	gcaactgctt	tccctgcctg	240
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ntcatccggg	atttggtaat	gttgggaatg	ttttttctga	ancctctttt	tcnccggggga	420
naaatccatt	gggttcttta	taattttata	ataatttggg	atcnaacaag	aaaaggcccc	480
ggaaatccat	acttantcct	ggcaataaaa	ggtaaccaa	aaaaattcn	ctttcccttn	540
ggcc						544

<210> 9125

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9125

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tttttgtttt	gtttttaaat	cttatttcan	aaaacttcct	cttggggtag	gaaagtacac	180
atgaagcanc	aaagtaacga	aaaaaaactt	aaatagggcc	ttcaganatc	ccacacacta	240
caaagattct	gccaaagccat	aanataagtg	tgaagccag	tatatgtcca	gcttttctcc	300
tcaggacatc	ttcagtgttt	cttctctttt	aaacaccaca	tcaggttcta	gccacanact	360
tgtgttttgg	gtgtgcctgc	tttgangggg	ccatgcccan	tgtgtctgtc	ggtgaccaag	420
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<210> 9126

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9126

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anattccttg	ccagattgga	acatggagat	gaacaaagct	gcttctggga	agcccatattg	120
gaaaaaaaaa	anggaactan	aaagctgcc	agtcaagctt	ttgaagcgga	nacaaagtca	180
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aaccagtg	acaccaggta	cagtgtgaca	gggtggctat	ggcctaaaac	atgggttttg	300
caggcaggct	gacgtgcatt	caaattctga	ctcttcctga	ccacacaaca	tggggctggt	360
gatcttgact	cttcnaacct	gtttctttgc	anaaaaaaaa	ggggcaataa	taataccccc	420
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<210> 9127

<211> 501

<212> DNA

<213> Homo sapiens

008220.69462960

<400> 9127  
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catcactata agcaaacaaa acatcaaagtg gcctgaattc taaaatacct ttggattata 180  
taaaattaca ttgtaaagtt acaaagtttg ctcatctctg anaaatgttt gaatgtttaa 240  
ataatgttgc cataatacat attattttcac gacattaaaa aaaacaatgg tgaatacaag 300  
gtatcatcat tttaagggtta aagagataaaa gcaagtacat atacaaatcc actggaaaag 360  
ctaagtttgg agctgatttc ctctcttgaa ttgtaaaatt tcagtaatac acagtcacta 420  
tctactgctg gaataatgcc tgagcaattt aggttganga tacnaacnat aacaaaaaacc 480  
tgcccnata ttcaacttgg g 501

<210> 9128  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 9128  
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tcttaatgtg ttaattgatt gattttttaca catttcattt taaacatgga aatgatgaag 180  
gttctaattg taatgagtag ttgttttttg attgttcagg tacactgcct cttttcttca 240  
gacactgggg ctctttttgtg gtcactgagt attactgttt tttcaagtct tcaagcacat 300  
cttgctttgt gatttttgcc catgcattgg ggattttacc tttacctgca aattttttct 360  
gatattttnc tttnanattt gatctgaagt gaganacaaa ccattttccag tatancctgga 420  
tggaagtatc tggggtgatg ctccacatgg cataatcccc 460

<210> 9129  
<211> 479  
<212> DNA  
<213> Homo sapiens

<400> 9129  
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ctaaatcaaa aaccaaagc agcactgaat gggcaagaga aagatatttg cggaggataa 180  
aatggggaaa acacatcaaa atactaaggt taaaatttct ctaattaggc agatataaaa 240  
tgacactgat gaggttatat gatagccata ctccaacaa ccaaagttat aaagcaatac 300  
gtgctcccca aataacaagg aaaagaattc tttctattcc ttttgttccc cgccccatcc 360  
cttgaatatt aagcatgaac actgtacatg cataaatcnc ttttacaagg gccacncgat 420  
nanatcacac aaagtctcat ttccccaaaa ataaattctg ggctgtgggc nccttacca 479

<210> 9130  
<211> 601  
<212> DNA  
<213> Homo sapiens

<400> 9130

aaaaggcaaa	caactttaat	ggttattttg	ctaaagataa	aactctgggt	ggtaaaggaa	60
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atagtcaaga	ggaagcaagc	caagtgttca	ctgatggagg	aacagagtgt	ggtacgcaca	180
tgtaacggaa	cattccatta	tatgtataat	acaggaagga	aatcctgtca	cctgacacaa	240
catggatgaa	ccttgaggac	attatgctaa	gtgaaataag	ccagtcacaa	aaagacaagt	300
cactgtatga	ttccacttat	atgagatact	gagaatagtc	caaaccagag	agacagaaag	360
canaatggtg	gctgcggggg	ctgggaagaa	tgggaattac	tgtttaatgg	gtacagtttc	420
cattttacaa	gctgaaaacc	tatggaaatg	gacggcgggtg	acngccnccc	acattatgaa	480
tgttttaaca	ttaactttct	gaactgtccc	ttaaaattgt	gaaaacatat	ttttttnnat	540
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<210> 9131  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<400> 9131						
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aaaaattcag	cccatgtgca	gcacaaaaat	atgcaaaact	actttacatt	atacacactt	180
tttatcaaag	gaaatacaaa	attctggctt	gttgttttta	acaaatacaa	naagcttcaa	240
actaaacaca	aagggttaac	attaattctc	aaatataagt	ctgcactttt	gtgttgtagt	300
tctctgaaat	gtgaatacca	aattcctaag	ggattttaat	gttttccttt	gaaaaggaaa	360
actaaaaaaa	ttcccgtaaa	caantccctc	cccatcagct	tggtctttcc	caaccctact	420
cttggttccc	ttaatgccan	anacttgcat	catgttacaa	aattgggggt	gggcccttaa	480
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<210> 9132  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 9132						
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gacaggacaa	aaaggcatga	gacagctgga	cacctggaga	gagggtgacac	aggacagagt	180
cctcaccggg	ctgccctggg	cctcggggag	ctcaggctgc	agtccttggg	cctgggtggca	240
cccacagcac	ggcagtctct	ggctgggctt	cggggagccc	acatgtctga	tccgcaaggc	300
ttggctggcc	aggcgggtggg	caccaacgtg	gtgggtgggc	agtcctgggc	ttccaggagg	360
cctcctggga	ctcaagctct	tcagtgggggt	gtgcctgtca	nggtgcangt	gggttctgtg	420
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<210> 9133  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

09629469.0.2300

<400> 9133

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
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<210> 9134

<211> 508

<212> DNA

<213> Homo sapiens

<400> 9134

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tgttttctgg	aagtcccaga	tcaagggtgt	ggtccgtgtg	atttctgggg	agggctctcc	180
ttggcttgcc	gatggcctcc	ttctctggtg	cangcacggg	gggagagcaa	goganccctt	240
tgcgtctcct	ctcanaaaga	cnaatcctgt	tggatgaggg	ccccaccctc	aggaccgatg	300
taaccttaat	gacttctgta	gaggcccat	ctccaaatac	agacatgctg	cagttaggtc	360
ttcagcattt	gttctttaat	anaattttca	atgccagctt	gcaccattaa	gtcattgaca	420
ttcttctgta	aatcctcaat	gcnaattccc	atttcttccc	attacantgt	ttaagggcnc	480
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<210> 9135

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9135

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agaatccacg	ctagcttttta	tgtaattaat	tctctttgtt	tccaagtata	gatccctcat	120
gttttcctca	catgatctct	ctgtgacaca	tttctcccct	ctgacaggcc	taccatgacc	180
ccatgttaaa	gttgtccatc	atgtcagaag	angaactcac	acatatattt	ggtgatctgg	240
actcttacat	acctctgcat	gaaggttaga	tgtgccactt	aattgtcatt	aaatctaaag	300
ancagcggtg	catgtaattt	tcagtctaaa	cttctaattgt	agtgtgacc	tattttttta	360
ataaacctgt	taatgggtgtt	tatgcttttt	tatcacttca	gatttggtga	caagaatagg	420
aaaancnacc	cancctgatg	gaacagtgga	acaaattggc	ccattctcct	ganctgggtt	480
tntttgaatt	tttgacct					498

<210> 9136

<211> 467

<212> DNA

<213> Homo sapiens

09629469.02800

<400> 9136

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	120
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	467

<210> 9137

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9137

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gattatttga	atttatccat	tctgaaaatt	aataanatct	aaaactggca	tgacaatcaa	180
natttgtatt	tagtgaaatt	taaaataaat	gttagccata	gttaaaactg	ttgctgcatt	240
catgaatgcc	cttaggaaaa	ggtccacagt	aaaatcagaa	agctgaacct	ctcctgctgt	300
ttataggata	tgtttatgct	gaattaattg	ccagggtttc	ttaaactttt	agggaattat	360
actttggtgg	ctcnatagta	aattctacaa	attattttta	aattgatttc	ctttccttan	420
anctgcanga	aaatatctgg	caagggtgcat	ttaatatattg	gaaaaaaaaa	atgaacngtt	480
acctacttta	ggaaaaaaaa	aac				503

<210> 9138

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9138

acaaagcagt	tggggcattt	attgacattt	aaacaagggg	aggagatcct	gaacactagt	60
ctcgctcagt	ttataaaaac	ttgaggccaa	actctccatc	atctgtacac	agcttaacca	120
cggncaggan	caagaattcn	agttaaacga	attgaaccag	tccaaccaca	anacnataaa	180
gggaaacagg	gcgtggggat	ttccagtttt	tcctttttaca	ttacaaagtt	tccaacacaa	240
gaagccaaca	ataccccagt	gctgcaccaa	gttactttcc	actgttttcc	naggnacagt	300
caattaataa	tcagtagtcc	aagtttctaan	aacattttcct	ggaaaacaag	gacgcacctc	360
ccgtggctct	atgcatggcc	tgccactgat	gaatcaaatt	cttaagaacc	tacgaacgtc	420
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<210> 9139

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9139

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ttacatattt	atagatacaa	caaagacaaa	taacttagca	aaaattacaa	gtttaaagaa	120
tagtactatt	ttgaaacagc	caatatagta	tctgaaaata	ttccatttta	tccataatca	180
gtgagtatta	tttccaaaaa	aagtaacttg	cattttcttg	tgaaaaatat	ggtttttttt	240
ttanatgtct	gccaaaggatt	tatcanaaaa	gtccatcttt	ctaaacctaa	aaaattgtaa	300
tgccttttatt	gaaaactttt	tttaccta	ggcttttaaaa	accacgtgtt	ttcctttgga	360
cttaggtgaa	ttctaaatct	ttacttcact	ttcaaactac	agggnatcga	cattaacnaa	420
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<210> 9140

<211> 427

<212> DNA

<213> Homo sapiens

<400> 9140

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gctcaggcaa	tcttcccacg	gctcactgaa	acctctacct	cttggtgctca	ggcaatcttc	180
ccacgggtca	ctgaaacctc	tacctcttgg	gctcaggcaa	tcttcccacc	tcagtttcct	240
aagcagctgg	gactacaggc	gtgcaccacc	acacctggct	agtttttata	tttttggtaa	300
aaataaagtt	tcgccacatt	acccaggctg	atctcaaaact	cccaagctca	aaggatccac	360
ccnctgaaa	tctcccaaaa	tgctgggaat	aacaggtttt	aaccactnt	tcctggccaa	420
ggttnnn						427

<210> 9141

<211> 399

<212> DNA

<213> Homo sapiens

<400> 9141

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cagaagtaat	gaaaaaccaa	tatgataaaa	acaaaaatcc	tccagtaaag	aaggaacctg	180
tccatttgag	anaaatata	ttgagaactt	gcaaatgana	caagggaaga	tggcaatttg	240
gaactgcaat	agaaataact	atagcagaaa	caaccattta	agaagtttta	gcagcaataa	300
gtatttatta	ttctgaatga	aatgtncagt	tgacttttat	ataaaaaatcn	tcnaagtgtc	360
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<210> 9142

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9142

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gcattgggtg	gctgggttca	gtaataaata	tgtgagaact	ttcattaaaa	aaaaatacaa	120
aaattagctg	ggcatggttg	cgcacacctg	tagtaccagc	tactctggaa	gctgangcgg	180
ganaattgct	tcnaccctaaa	aagcggangt	tgcatgtgagc	tganaatcgcg	ccactgcact	240
ccagcctgtg	tgacagaatg	agactttgtc	tcaaaaaaca	aacaaaacat	gcacacattt	300

09629469 072800

aatcaatata	aaatattatt	tctgcgaagt	cacttcaagc	tgatactgca	tactccatat	360
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ggtaattcaa	tnccctgggg	gtncctttacc	cccttggtac	tacaaccttt	gggcncagg	480
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<210> 9143  
 <211> 542  
 <212> DNA  
 <213> Homo sapiens

<400> 9143						
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caaaccctgt	gttttattat	acaaagcaat	ctacattagt	angtaaaaag	aaattctcaa	180
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catactggaa	ttagaattct	gtaataaatt	ttttctaatt	ttttctgtac	atattaaata	300
acccaaaagg	ttcctcttgt	agtgcattgt	ccatttagca	agtctattca	gtatttttcc	360
agtaccattc	tcattacagt	gatttgcctg	taaatgttag	ttaatatcta	aaagtgcaca	420
cagttaactt	tcccaaataa	cggactatct	ctgggaggaa	acctaattat	cacagaaaaa	480
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cn						542

<210> 9144  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

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agancgtgtc	cacttcacac	tgacaggcag	tgtttaanaa	aaacatctca	acctgccagc	180
caacgaaaat	gggtgacaag	tcanaatgtg	gggcagggat	gtnttaaagt	gaacagaant	240
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<210> 9145  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 9145						
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acattcaacg	aattgaagat	actcaagaaa	acctgcagaa	aataatatga	aaattaaggg	180
gaaacctgan	tgtgttttaa	ggcanaatta	aataaagctt	atgttttatg	gttganagan	240
tcagactaat	aaacaggctg	tttcanacct	aagttaggca	ctta		284

<210> 9146  
 <211> 352

<212> DNA

<213> Homo sapiens

<400> 9146

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acggttctga	ccagtcctcc	aggtcgcacg	tggtatgccac	aggggtgggg	aaggaagaag	180
aaattactnt	cccaccttca	naaaaaaaaa	aaaaacaaac	aaacaaacnc	tgctanccac	240
tcacctttta	aaaccccatg	gctatgggcg	cctgcanogg	gcgggggtcc	atttgcttgt	300
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<210> 9147

<211> 221

<212> DNA

<213> Homo sapiens

<400> 9147

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ggcacagtct	gacatttctc	aaattcacct	canttcctat	ctctggttct	ggaaattatg	180
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<210> 9148

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9148

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ataaatattt	tcccaaaatg	acataaaaaat	ggtcaataag	catgtgaaag	gattctcaac	180
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cnaaaagcta	aatanaatta	ccatatgttc	ttggccttcc	tccncctana	taatactccc	420
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<210> 9149

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9149

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tcctgatgga	gatactgttt	tgggctagag	gtattgaaga	ccccttaaga	taaaaaatgc	180
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atggccttga	aacaatgata	tccattctca	gagggctgag	actggatcta	gaattggcac	300

ttcaatgctt ggcagtactt ttgatcttct aatatgccct cttgttttcc anaacaatat 360  
tgacaacgat aattcattga aaatttacnt cn 392

<210> 9150

<211> 327

<212> DNA

<213> Homo sapiens

<400> 9150

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cagtcaccatt ttacttaaat atcaaatca aatcttcagt gtntactta ttttgggtgt 180  
taattccatt atacaccgtc ttatttcatt aatttccata ttgtgccaga caagatataa 240  
aaataattca actccagnca ataatnccat ctgtcttcat gtgaccagaa taannagctt 300  
ctgctcccaa natggaagcc acagtaa 327

<210> 9151

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9151

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attgtaattt aatcttatct attctcatgt ccaaacactc aaganaaaac tataaggaac 120  
tatatttaca aaataaatca taactttaca aaaaggcat aaaatagcat tttggcaaaa 180  
acttaactta ggtaatctga aggtatctaa ctgtatcaat tttaaaaata taaaaatata 240  
gctttatgac gaaatttttt ctgattaaaa aagtaaaact tcatttgctg gttataaanac 300  
aatatgttca tttanaaaaa aagtggacat cctgggctaa catggtgaaa ccccgctctt 360  
actgaaaaat acaaaaaatt tanccnggcg tngtggcggg tgcctgtatc ccacctactt 420  
gggaagctna agcaggaaaa ttgcnt 446

<210> 9152

<211> 406

<212> DNA

<213> Homo sapiens

<400> 9152

aattgcacat ctgttcacag aggttggcaa aagacactgg aagtgattgt gaaatccaca 60  
ttgtgattcc tcaggaatca gatcctagaa gggggtgccc agagctgtcg gcacaccgtc 120  
ccaggagtct gcctgtgcag ctccagcca ggcaagaagc cctgaaggca gagtcccagg 180  
tggaacacagc tggacgcctc tctgacaatg gtggctctgg tggatgaacc ctcggtgtct 240  
cttctgcacc tctcaaggct gcaaagtgcc aaatactctt ttccaaccag ctcccgaatt 300  
ccccctcca tctgggactg catgtcctgc ttancgattt caagcaatga tttcaccttt 360  
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<210> 9153

<211> 550

<212> DNA

003220 69462960

<213> Homo sapiens

<400> 9153

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aaacaatgac	attggaacat	ctatccattc	ttgtttcggg	ggaaagtcta	tctaattcag	120
cttctggacc	gactgttcgt	ttttccatga	tctcttcctg	caggtttgct	agaagtcct	180
ttcccccat	aaacaccttc	ctttgggana	tttgggtgcc	ttcctttttt	aaggttttta	240
aaactaaaat	gatttataga	ctatccgtat	cctgtcanag	ttgggcaagt	gaatggatca	300
tatttgcgtg	ggtcactctg	attataggac	ttcactgttt	cttgaactaa	aagtgaaga	360
tttattattc	tattaatgct	cataaagtca	ctcttttgat	gagccataac	ttctctttat	420
gaagantgtg	tatgccagtc	acctatgata	aggganaaaa	aatccanact	tctaacatat	480
tccctcacat	tccctgcaac	attaacagtc	ttgaaaccct	atntaatccc	agggganaat	540
gccccnggat						550

<210> 9154

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9154

cagcacaata	tttcatttat	ttattgtata	agtttggcaa	acagcacaaa	aatccagcaa	60
catttaaaac	atataaaaaa	gtcaaatgct	aaacaggact	agggattttt	ttttacatca	120
ttagaaataa	cgagtacaca	ttttaagatt	ctgcaaagct	agcaaaatga	anatgcttgc	180
cttctgaaca	tatactacaa	acacacatac	aaaaaaacaa	tataatttat	ctttacaaaa	240
attacagcca	agcaatagaa	aagaaggatg	ttnatgatga	agatagcaac	acatatgttt	300
agtacatata	tcttacacat	tgaatgcta	catcttatac	cctgaaatgc	catgtgtnta	360
gagccnngca	nagtaaattt	aggctcntta	ctggagggtta	a		401

<210> 9155

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9155

ctagcaaagt	ggttttattct	ttcaacttat	tgctggaaga	agtcctttta	acaaaccagt	60
gcanagaaaa	tgccatatcaa	aagtatcagt	ttttcagctt	tcttcaccac	tgcttttagat	120
gtatcatttt	tataatttta	tctcttcatg	tttttaaga	gctgctactt	cagatgacag	180
taactctttg	gtgtttattt	ttattttcaa	gattgtgatt	tttttaagag	gctactttta	240
ggctgtgaat	tgtctcactg	tcttttcaact	ctctcttttt	agttcttcaa	tatgggcatc	300
caagcgctct	agaatgtgat	gagacctcag	ttcctcctct	tccaaaaatc	tggtagctat	360
tgaaccaagg	ggagatacag	gcaaggaaca	ctcatgtnaa	cccaattcca	atttcacac	420
catttcagaa	agatgacgan	tttctaattt	gagtgaacca	gctgatccaa	aatctcctta	480
tgctctactg	ctttgtcttc	tgccttttgc	tctctgctct	gaatcccttt	ccctntntga	540
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<210> 9156

<211> 435

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 9156

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tgggaaaaaa	aatcactggg	anangcagca	taaaatggtg	gctgaaaaa	anaactctgg	120
gagccaatct	cagctctact	cccttactag	ttgtgccccn	taggtaggat	ccttcaacat	180
ctctgcttca	actnagccat	ttgtaaaact	ggggtaacag	tacctatctc	agagtaaagg	240
ggactaaaca	agttaacact	tggaaagcat	ttaaaanaaa	gccagcaca	taagtgttat	300
atgtatttgt	aaaacttttt	aaaaatctca	actgggttaa	cttttccatg	gatctttcag	360
gtccttacc	atatacat	tttanatgt	gttacantaa	gtatgtatat	acaantctgt	420
anccttttta	ttcn					435

<210> 9157

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9157

aagatggagt	ttcgtcttg	ttgcccaggt	tggagtgcaa	tggcgcgato	ttggcttact	60
gcaacctctg	ccttgcagtt	caagcaattc	tactgcctca	gcctctcaag	tagctgggac	120
tatagacatt	caccaccaca	cccagcta	tttttgtatt	tttagaaaat	tttgtatatt	180
tanaaaaggt	ttcaccatgt	tggccaggct	ggtcttgcac	tcctgacctc	aggtgatccg	240
cccacctcag	cctcccaaan	tgctgggatt	acaggcctga	nccactgtgc	ccanccctca	300
agtnactctt	aaacctactg	aagttagaca	atcaataact	gaaatgacat	catctttctt	360
gaatgtttta	ggaaataaaa	ttccttcttc	tgacaaactt	taaatgtgtt	ottganttcc	420
ttgcctcccn	cttcctctgg	gaattttctt	ccctantgc	tcnctttcat	tatcaanaaa	480
atattcccct	ccccctttt	accttatacc	ta			512

<210> 9158

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9158

cataggtaaa	atttttat	atgaatgtgt	ggacacatga	ctttggatcc	agccagccag	60
tgacataaat	aaacttgagc	aaaagtttca	agctaganga	tatatatgta	tagaaaaatta	120
tatatatttg	tgtgtgtgta	aggcctcttg	gaacagtgcc	acaaacctgg	acaccaacca	180
acanaatcct	cccgctcctt	gaaattttcca	ttaanagcac	aatgggggta	attataccag	240
gatgctccaa	tcgctctttc	catcttgtgc	actcacatgc	ccgccaacaa	tgaaatgttc	300
gcctgctccc	ttccaatgtg	atggttgttg	aacttatctt	tagtgtcatt	tgataagcct	360
ttgtgctcac	anaananaca	tcccactgac	ccagccactg	gtcattgtct	ataccagttc	420
acatcaaagc	aggcgccttt	gtcaggttcc	nctcnaatat	ccattccc		468

<210> 9159

<211> 223

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9159  
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 cagaagatga aaagcagaat cccacgggtt tgganttggt gcanccgaaa ctacatgaac 180  
 tcggantcag gangtccagg gtctancact catctactcc tga 223

<210> 9160  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 9160  
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 acaacattct cttcattaag cttttttcaa aacacacgan acaaagctcc cttttgggtca 120  
 aggtgtccca cacattacca ctgcagctcc cagcacagcg gcgcaccatg aactcggacg 180  
 tggagcccaa ggaatggaga tcgcaccagc cttccctgct tccccacccc aactacaccc 240  
 nagggagaaa ggatacnang aaatacccta tgtcttcaat gcttgggggg ctgggggtgt 300  
 cctctgctac caantgggcc ggtcantgcc 330

<210> 9161  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 9161  
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 agacaaggct tcactctgtg acccaggatg gagtgtggcc acacaatcat agctcactgc 180  
 aaccttgatt tccaagctc aagtaatcgt cctgcctcag cctcccgagt anctgggatt 240  
 acaggcgcac accaccaggc ctgactcttt tttttttcct ccggtanana tgggggtctcc 300  
 ccatgttgct canactgggt tcaaactcct gagctcaatg atcttcttgc ctggcctcc 360  
 caaagtgtg ggatttcagg tgtgagccac catccccgga acttttcttt tcaaaacata 420  
 cattaaaatg gaaatgaata ngaacancca gtggctgtga tgcacaaaaa cccctgtctg 480  
 gaaacatgcg tctangttat cttcccnct ttgccaan 517

<210> 9162  
 <211> 599  
 <212> DNA  
 <213> Homo sapiens

<400> 9162  
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 ctctcatttc cattcttttc tttgaaatcc aattaaaaaa aaaaaaaaaa aaacaaagtg 120  
 tttaaaatca caattatcta aagtcataat aaaatttnc tgtctccaaa nagggggaaa 180  
 acacaccact tttattttta tgcagcattt tcaaataatgc atgtcaatat atattttata 240  
 aactatttaa aataaaaacc ctncatcctt tgaggttatt gacattttct agttcactga 300  
 cacatctccc ataatacaat agttctattc attttcatga atgagggtgg aactacacta 360  
 aaaagtagga ttttaatccc tgagggtgcca gttaaaatgg gacnangttg cccttgcaac 420

09629469.072800

<213> Homo sapiens



<400> 9166

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aaaatttttt	ttttgggggg	ganggtaaaa	aanggtctt	accatgttg	ccaggctgg	180
gtcaaaactcc	tgggctcaag	cgatcctccc	acctcagcct	cccgacatgt	aaacgggtggc	240
tacatttccg	cacaatcccc	gcggtctccc	tcattctgtt	ttacaactac	tcccacataa	300
agtaacgtan	aanacaanc	cccgttattc	ccttanaaag	tagactggan	cttgca	356

<210> 9167

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9167

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gggaatgcaa	acaaatatac	aaataccata	agcattatca	aataaaataa	ctggcactag	120
tgttataagc	atattaatgg	acctgggtaa	ggaaaagtga	tggaagaaga	ctgcagccca	180
tggcattttt	ctttttacca	aaagaaaacg	ctcagtagca	ccataatgg	aatacttaaa	240
agaaatacat	aagatagaac	attttaactg	ctatcattga	ggttaacctg	cttttattta	300
agtgaattat	acaggaaatt	aacagtacag	gcagtatttt	ggccaacttc	tgottatgtc	360
agctgancat	tgtccataaa	caaaaagcnaa	agaaaataat	gctaatacata	catggaactt	420
ttgttcttgg	gtacaattcn	gccccctgcc	ttgaattcct	nggntggnaa	aaa	473

<210> 9168

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9168

aaatagacag	ggtcttgctc	tgttgcccag	actggagtgc	aatgggtggaa	tcatagctca	60
ctgcagcctc	aaactcctgg	gctcaaatga	tgcttcaca	tctgcctccc	aaagtgttgg	120
gattacaggc	gtgagccacc	acacgtatcc	ggatccagtg	cggttttaat	gtancataag	180
agttgaacac	tgattaaaac	ctttttcata	ctcatcaata	atcaacagca	ttcattagat	240
ttttttctgg	tacagtgtct	ctggtaactga	atagagtgg	tgtacacact	aaaggttttc	300
tcacattcat	cacattttga	ctgtcttctc	cacaatggac	ttcctcatga	atagtaagtt	360
caganagttg	gctacaactt	ctgctgcact	gaacacactg	gtagggttnc	tcctcancat	420
gggttttctg	gtgttcaata	anatcantac	at			452

<210> 9169

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9169

aaaatgggga	aggtttatta	aggtttttcc	tcaagaggaa	cagccaatct	cttgcttctt	60
gagagaagca	attaatggga	aatgtntgtc	acacctggg	cccagaacca	caggaggccg	120
cttctcagca	tgcccaacga	acatacatca	tcccacattc	ccatttaaag	ctcattaatg	180

008240 69462960

tctacaaaac	agaatccacg	ttgccttccc	agaaaacaga	actaggaacc	cagtcaaagc	240
ctccagctgt	tctcaacaag	aatattttaag	caagacaggg	caataaatgg	actgcacatt	300
caacaaaccc	atgatgaaac	tgacgtaaaa	tccaggatca	aagaaatgtc	tggaactacat	360
tttcaagaat	aacttacagt	ttttacattt	tggggaacat	aaatactaaa	aactgggttn	420
ttagaacgcc	tcaaanctc					439

<210> 9170

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9170

gagatggagt	tttgctcgtt	gcccaggctg	gagtgcgaatg	gcgcgatctc	ggctcactgc	60
aacctctgcc	tcccaggttc	aagcaattct	cctgcctcag	cctcccaagt	agctgggatt	120
acaggggccc	gccaccatgc	ccgactaatt	tttgtatttt	tagtaaanac	ggggtttcac	180
catggctggt	ctcgaactcc	tgacctcgtg	atccaccgcg	ctcggcctcc	caaagtgcgt	240
ggattacagg	catganccac	tgcgcccggc	cactaatcca	tattacaaaa	ttaaagcctc	300
naaattaacg	ttttatctca	attatagtca	ttctgttgca	aggaactttt	aanaacaatg	360
ttggttacca	atgtnaccaa	ataaatgcaa	cttaagttta	aattacccaa	gtgggtacca	420
actgataact	taaattaagg	ctgaaggtna	ccgaaaaaat	aaaaattaat	tcnncntcct	480
aaaccggtnt	ttaaaattcc	naaagccacc	aaa			513

<210> 9171

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9171

acagttaaag	aaaaaggtgt	ttatttaggc	catcaactag	gatcataata	aataacgtaa	60
tatactaatt	taataacaga	tcttctcatg	catttatcgt	gtttataaat	atagaagaaa	120
gctggcttac	agggctgttg	ggacaaattt	ggaaaagtgt	atttggcaat	tacacagtaa	180
aagttaacag	tggtgactat	cagattctct	tttctgtcag	tttttagaat	acatccccta	240
tacatctgtg	aataaatggt	aatggctctc	tagagtttct	actttttgtg	aacatgccag	300
agttaagtaa	attgtcaaag	gatccagggt	gacaatgtgt	tatttgtcaa	tatttctaatt	360
gaaaaacaga	tcttagaaaa	atgaactctt	ctgcatttca	ttggtanagg	ctgatataatt	420
acaagccgga	atcattcaac	aataaaaaaa	gtcctccatg	aaataaaaacc	cnaaaattat	480
ttatcnataa	tnacngt					497

<210> 9172

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9172

gagacagant	tttgctcttg	ttgcccaggc	tagaatgcaa	tggcatgata	tcggctcatt	60
gcaacatctg	cctcctgggt	tcaagcgatt	ctcctgcctt	agcctcctga	gtanctgana	120
ctacaggcgc	ccgccacaac	gcctggcctaa	ttttttgtnc	tttttagtaaa	natggggcct	180
caccgtgttg	gccaggcttg	tctcgaactt	ctgacctcag	gtgatccacc	cgcctcggcc	240

008240" 69462960

tcccaaagtg	ctgggattac	aggcgttagc	cacggcgccc	ggccaagaat	tttcatatga	300
taggatgagg	catgactctt	tcaagtatta	acaacgctgc	anaaagttag	ttggcagcac	360
anttgtccc	agttagacat	tggctcttta	ngggtttttt	gtatttaa	tgaactgcac	420
aaaatgaaac	ggggccttgc	caaaaaatcc	tgggtgcttgc	tccattcncc	antggggggc	480
cgtcnctgct	tttgtcttca	aaaacctngg	acancctatt	cccc		525

<210> 9173

<211> 425

<212> DNA

<213> Homo sapiens

<400> 9173

ggcagttgaa	aaaaatat	ttatttcaat	tttgtgtaaa	agtttattga	nanccaagtt	60
tgcctgcaag	tgaaaaaaat	gcagcaacga	aaaacaggga	acacggggca	cataataata	120
ttctaana	cttggccatt	aagttaaaaa	tatctgttca	taaaaaaatt	gggttccttt	180
tccacctccc	accccnnaat	tggaaattttc	aggctttaaa	atttaagtna	ttcccctggt	240
ctgaggatat	gatctcttgc	cattttttct	tcaactgtta	cttgtgaggg	tttaatttgg	300
aatgataac	ttaataggtt	tctctttgga	gtgaaatttc	ccattgtagg	cncataggaaa	360
aacaaggcaa	aancgtcant	tagcgtctca	ttttccatt	tnaaaactct	ctcggggccct	420
nacc						425

<210> 9174

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9174

gcaaaaaaaa	tcttttattg	gcatgaaaat	aatgttgtaa	atggcaccaa	atattccact	60
taaatgcata	tacagtatta	nagtcaaaaa	ctattttatc	cctctttgct	gtttttcccc	120
cttctgcca	ctttcctggg	tgttgggggg	gcccgtgac	aacagtcaca	aatccagcga	180
cctgatggaa	tagcaccaag	gcccacacaa	aaagtatgat	aacctctgtc	acacatatca	240
canaacatca	tttcttcttc	atgggtgggt	tgtccacata	taatgcatgt	tttacattcc	300
atacactgcc	atgggtaggt	cttaatcata	aaaacaagct	ccattgtcat	atccaggcaa	360
gaaagatggc	cactattctc	acattgggan	cagtgtataa	gtgattcacc	tttcctttct	420
tgttggantc	cttaccttca	aanaaattcc	acatacat	ttggaatgaa	ctttggcttg	480
ttaccaagaa	ntganttgga	aaattccaaa	ctttgggaac	actttcttng	aat	533

<210> 9175

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9175

atattttcat	ttttcatcct	aatttaactga	agccattttc	tttggttagc	tttagaatta	60
tctttcttta	tactaaccag	cttagcatgt	aataattctt	gcccatgtga	ctacaaaaca	120
ttagatatct	ccacaaataa	aaacganatt	cacctacaca	aatattcctt	ctotttaagt	180
tcacaaaatg	caagaagaaa	agaaaaatga	tgtaggttg	tcagtaagga	aagcatttct	240
agatgagaaa	aagaaactta	agtgttattt	ccccctaca	gttttgaana	cccggotgaa	300

cacagcataa	aaattgtcag	gaacagtgca	ttctctttac	antatgaagt	gaactaaggg	360
gttgggttgg	ttcaattctg	gcancctcatt	ccanaaaaaa	aaccctccaa	nttgacagtg	420
ccttttgtcc	gtttanggga	tggcaacacc	tnctcc			456

<210> 9176

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9176

gagacttaac	tggtttaatt	gcttagccct	ggtgcctcag	ccacctctca	tctgtagggg	60
gagactcaag	tccaggcacc	aagacacacc	agcaccacca	acaccatgcg	gggatcattg	120
gcctgaaact	tggccanaaa	aagctccagt	cctgggcctg	taaaaatggg	cgctgggant	180
gtctgaagcc	ggcacgggtg	cccctgcgtt	gtcggccctt	gcaggtgaag	tgtgtgtcnt	240
tccccactt	tccccgaat	ggcacccacg	gcctcctgct	gganccctc	cggggccccc	300
ctcagggaa	aaaactctgc	ntntgttcaa	ngttcaacct	ggccacctgg	aactccanct	360
cacctgggg	gtgtggatgg	at				382

<210> 9177

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9177

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gatcatcaca	tnagccctc	ttctccatat	acacatttgt	tagtgtgaaa	aaacaatttt	120
gtacagtatt	ttagttagta	catgattagc	aagcaacaga	gaagttagta	aagctgaaga	180
actccaaatg	cattgtctcat	aggacaacca	ctcaaacaca	agcagctagg	caataaagga	240
aaatttccca	tccagtcatt	gagaaatgct	aaaggcattt	tatgggtgaca	tgaatgctta	300
anttagtatg	caacctatag	ggcaaataaa	actgctatat	aggtnggtta	ttttgcattt	360
aaatatttgt	tagtatggta	ctacccattt	atctaacatt	taataatata	taaaatttta	420
attctgggtt	ctcaaaacan	ttgcttggtta	tttnggtana	ntntctgtta	tac	473

<210> 9178

<211> 354

<212> DNA

<213> Homo sapiens

<400> 9178

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aattttctaa	gcaagggtgct	tttaacaaaa	tttttaagt	tggaagagc	tgataacttg	120
gatcatagct	cacacagaat	tccaaattaa	agtggactcc	attatctccc	tatatatttg	180
aaacaatgct	ttgtataaca	cttcttttaa	acactaaaag	agacagcaag	ctgaaaacttt	240
tttcaaagca	cacaagaaat	gtttacttga	aaaangtgct	gaggggagaa	gggagtga	300
aatcctttta	ctatttccca	ctacaggaca	gccnctnca	gactangaac	aagg	354

<210> 9179

<211> 242

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 9179

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acacngaaag	gaaggctcaa	attanggggt	gtnnacacatt	tatcaggagg	taagatctcc	120
atagtctcct	accctcctg	ggcctggcct	tttactgttg	tatccancct	ctgggaanac	180
cttgtatgga	cagtatctcc	actggggcta	tcactagggtg	accaggtagg	ggacananta	240
na						242

<210> 9180

<211> 348

<212> DNA

<213> Homo sapiens

<400> 9180

gattttttga	gatgaagtct	cgctctgtca	cccaggctgc	aggggaatag	aangatggac	60
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aanangcggg	gtggggctgg	gggtgaaaag	cacaaantaa	ggcctacagg	acgctctgca	180
cgggctgagg	aagagggacg	tggttcagcc	atggctgcag	gagactgggt	ggatgtccgt	240
gtcaccaagg	cctataggga	acaatgggga	ggggcgggct	tgggtgtgatg	cangaagact	300
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<210> 9181

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9181

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taaattanaa	ataaaaaagg	gggaaagtag	gaanaaaaaat	cccctcctcc	aggtctgaaa	120
atcanaca	aatccttaaa	actttagtag	ttgccatgct	acaccacatc	tgccaataca	180
tgaaactgac	ccattagtgc	tctgctggat	cagcctgccc	aggcactgct	gcctgctggg	240
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cactgttgct	cctgactggg	gccaccatgg	tgcccaggct	tcaggcacag	ggccctgcct	360
ccttccccgc	accgccctcc	aggtgggtcca	cctcgtggct	gtcagttcct	gttggacctg	420
ganctgctcc	ggcttctctgt	tgtgtggtaa	gggaacttca	ntgtgctatg	ctcttaaaaa	480
aacggccctc	anaactactg	aaggacccan	acacacatgg	tgtnaccant	at	532

<210> 9182

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9182

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tccaaagttc	aggaccactg	aaaccataat	agaanaatct	tgggagctaa	tgtcaaagaa	180

tcattttttg	ctatgcttga	tttaagtcca	aactttaatg	tgattttta	ctattgcata	240
tccnntgagg	aattttaactg	tgataatact	gaaaagaaat	attggatgag	aaacaagaca	300
ggcccnaacc	cncnaatctc	ct				322

<210> 9183

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9183

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atatataaat	atgttgcaaa	tcttggaac	cttttaggtg	tgatggctgc	tcaggcaaac	180
catggagcaa	gatttggaat	aataatggtc	tgcatatc	ctcccatagg	cagtgaacaa	240
ggttggccac	attgactcta	ttatgactga	gacagtggca	aattttactt	ggttccccc	300
aatcagtga	aananat	taaaacatat	ccntaaaaaa	aatatactgt	gggggtattg	360
aatccaaata	ttcctatctt	aatatgttat	tatggtatta	aaaanct		407

<210> 9184

<211> 511

<212> DNA

<213> Homo sapiens

<400> 9184

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anccccacct	tcatgacgta	atcacctctc	aaaggctctca	cctcttaata	ccatccatt	120
agggattagg	cttcaacata	ttaatttttg	ggaggacaca	aacattcagt	ccatagtaac	180
tttgatcttt	ctctttcttg	atttctgtag	ttagaattcc	tgatgctgc	cttgactcct	240
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ggtggacaca	aactggctct	ctaactccta	cttcatacta	aatttttgcg	tgattctccc	360
cttgatctct	gaccctggtc	ctacactgac	ccctaattccc	acatggnagt	gggacaacct	420
actctcagtt	tacatgaata	acttattgctg	ggaattggta	ttttccagcc	ccnggtcna	480
attttttact	tttttccng	gaatttatcn	t			511

<210> 9185

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9185

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caaaaaggaga	gagttgcaca	gttggcaaaag	gctcagatga	ggaaataaac	aaataaaaaat	180
gcttttcttc	aatgtctggg	accacttttg	ctttctcaag	aaaggccgaa	aaccagtcaa	240
ctgcgtgaca	ctttgtcttc	tccttctatg	cctttctgtg	cctattgctg	aatggaaaaa	300
cccgcacagta	tcctttccca	gtgggcccctt	ggatttatgc	tgcaacttaa	ctcactaaga	360
ttgtgtgttt	cagtaccacg	gtgattcctt	actottgtct	tgatgctgta	gacctgtatc	420
gaatcccacg	ctgggcacta	tgtctactgt	nccatgaaaa	ngntcc		466

<210> 9186  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 9186  
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caacctccac ctcccggtt caagtgatt tcctgcctca gcctccccgg tagcctgccc 120  
ccatgccag ctaatttttg tatttttagt aaanatggga tttcaccatg ttggccaggc 180  
tgctctcaaa ttctttaccc caggtgatct gcctgccag gcctcccgaa atgctggggt 240  
tacagcgtga gccgctgtgc ccggcccagc cacttcttct tattggagtg tgagcactag 300  
gagcaggac ctttccatgg tgcttgctgt gttataccct gcaccagaa cttagtaagc 360  
gttcaaaca aatttttaaa aataaatgga agaacnaatt aanaaacctc ccggtnaatt 420  
cttaaancgt tccccaaaca gggaaatn 448

<210> 9187  
<211> 346  
<212> DNA  
<213> Homo sapiens

<400> 9187  
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ggagtctctg tcccagcctg gtgccccgga caggcagatc tcacttccag aagagcacat 120  
tccagaaaag tagtcagcaa gggcagaggc ccagggacag cagtgggaag agcaggggcg 180  
cttaggtgtg gtgctccagc gcaccctggg ccagtgtctg caggaagaac tgccagccct 240  
tgccagtgta cagtgggtgc tcctgcagct cccgccacag gaatgggctg ccaangagcg 300  
tggtgtgtgg gcttgtcaac accagcaggg cancacanaa ggtcca 346

<210> 9188  
<211> 309  
<212> DNA  
<213> Homo sapiens

<400> 9188  
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aaaattagta cttaaaaggt tcaaaaatat attgattgag ttatttttct tacataaata 120  
aattatattg attttttagga tttaacagct gaaaaaacc tttctgcttc cactggaggc 180  
aaaactgaac aaaatgttag ttaaatanaa agagcagcat ttctaanaaa tctgtgggtca 240  
gcattatana ccatctatgc tacaagggat ntcnttaaat aggatttgtt caattactgg 300  
attccctnc 309

<210> 9189  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 9189

09629469.072300

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gcaacctcca	cctcccgggt	tcaagcaatt	ctcctgcctc	ngcctcccta	gtagctctga	120
ctataggcac	gtaccaccac	acccggctaa	ttgataaata	atTTTTataa	acttaaaaaac	180
ccttctcctt	gttaccgcaa	atcacaaaact	ttaaangtcc	ancaataaac	nctgtccaaa	240
atttcatgct	cttcaact					257

<210> 9190

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9190

gaggccttaa	TTTTTctcta	tgttcaaggc	agttaattgc	tcaaantatg	ggtttggagg	60
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caaattcata	ggccatctac	ccaaatggat	tttctcctat	caactctagc	tcagagagcaa	180
catggtgatt	caaaataggt	gcctggatag	gaanaggcat	accgtgaatc	taaggactgt	240
nttgaatant	aaggctaaca	agantcaggc	atctgcagggt	gctgatgaac	tanaaacagg	300
aagggaccga	gttaacattt	cagggtggcca	aggctctcct	tggaagctgt	naaccaagac	360
tgaaggctna	tttactcttt	ctgtcctgca	aatctgcttt	gatatggaac	aatacccatg	420
gatgcttaan	tactanctac	tatatccgct	TTTTTTTTTT	gtccccatt	aaattgccta	480
agaactgaaa	ttccccgaan	aaaaanaaan	cccccttttg	gttc		524

<210> 9191

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9191

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acacattaca	caaaatttaa	gacttgtgca	tatatattgat	ttcaacatta	atgtcaaaaa	120
tacatagtat	gattttacat	aggatttgtg	ctacattaga	acactagana	caaacatcac	180
ttgagtatta	aggaaaacat	taaatattaa	ataactgana	aaatgtgtna	acactaatct	240
aactgggggt	tttgctattg	caacatgtcc	aatgaagtgg	tttcaacagt	acaaaaagga	300
ttaggacatg	agtttttcca	gtctacatgg	aatatatgga	tttcatttca	ggaatccttt	360
cataaaaact	ggtccaggat	aacagganaa	aatccncnct	cctgattggt	taatttggtta	420
cctccattct	atgctaattt	ttacttgcca	acttgggttc	tgagtaatac	ttnaatcacc	480
ncccctatca	cctctnggtg	aaaactgaag	gttggtnggg	atccctgtta	aattgaattc	540
tatgcncccc	ctttcacccc	c				561

<210> 9192

<211> 408

<212> DNA

<213> Homo sapiens

<400> 9192

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tcacaaaagg	aaaacttata	gtcaagaaaa	acctcacttg	ttttttgcac	aaccaatttt	120
cctgtttacc	tatagctagg	tgtatctgtg	cacatcactt	aattacttag	gantanaataa	180





cagctganct gctgtctgct ttggaaaacc gttcctggag aaaanaa 227

<210> 9196

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9196

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tgagtttatc	aggctatctc	agccttatac	atgttctctc	antgtatgct	tttcggccac	180
ataatgaact	acaaatTTTT	gctcaaccct	tttccacata	natctgagtt	ttctncctat	240
gggttttctg	taacataaaa	taagacataa	ttgatcacgg	aaggcacaac	cacattcact	300
gcattcacaa	ggtttctgtc	ctgtgcaa	ccactgttat	ctcctgaggc	tgacacatctg	360
accactggct	gtcccacaaa	gactacgttc	ctgtttgcga	agangccgct	aatgtttaat	420
gatgtctgan	gggccacaaa	aagcacttgt	gttatcccc	cgttagcaaa	atTTTTctcc	480
tgcattgacat	cactgggtgtg	ttatganctg	tgccnctctg	ccaggaagan	ttccccctg	540
ggtgcctctg	tttctccct	gtntttttc				569

<210> 9197

<211> 263

<212> DNA

<213> Homo sapiens

<400> 9197

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aatacagtat	aaaaaagaac	agcttaata	aacnggtatt	cacatatcac	aatagcaaag	120
ttatgacana	atgaactgaa	aacacnaaca	gttttgaaaa	ttctcttttc	agcctacttc	180
caaataaaaa	tagtcaggct	ttttnctgt	acatagtttg	atgctttgtc	tataccatat	240
atantanaaa	aataaattct	tta				263

<210> 9198

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9198

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gacataaaaa	agctgttttt	ctcccaactaa	attgccatga	ctttgtactt	ataaagtcta	120
ctaaattata	ttcaaaaagt	gtgtataact	gtaccatttt	cgttaaaaata	ttgtgtaaaa	180
aaaagtttgg	gggaatatat	aacaaaataat	taactgtaga	tccctctggg	tgtaaanatt	240
acaggaggct	ttcactttga	gcactctcaa	atagtgtgaa	atttgagatt	tttacaataa	300
gcattatgtg	tgcaaaaaa	attaaaaatac	ataaacgtta	agaaacatga	aaaaatgac	360
agtcctaatac	atgcaattaa	aactggcngg	acctattttc	ccataattaa	tgncnnaaaa	420
cggtncagtg	aaaagttttc	cnc				443

<210> 9199

<211> 367

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 9199

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ttgccaatta	aaagtatgac	tgggacactg	taaaatgtac	tattttta	gggtgtgcat		120
gtcaggattt	tctttanaaa	tacactgggc	tgggtctaatt	tatttaagca	ggagcacttt		180
aaagtatccc	accctacccc	attccacccc	cagtggacag	aaaggaaatt	gactgacttg		240
aggggatgca	gacatctggg	ttattccaac	anaccantgg	ttaagaagan	gggggtggta		300
ncattatggc	ctcgggcagg	ccccccacc	ctgagcctct	gaaagctgac	tttatctgta		360
agangga							367

<210> 9200

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9200

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ttgtaaaaat	gaaatccac	ttagtctgat	tcacacgaat	actaacgttt	aatcctgttt		120
tcaaagtcca	agattgaaaa	cttgcaatta	aacactgagc	aagccacatg	tttaagtaat		180
atttcttaaa	aagtcttaaa	gaaaaaagta	tgatacagga	cctaagtttt	cagtggcata		240
tatactatta	acacatgttc	tgaaatctgg	taggtcacat	cagtcctgaa	tttaactttta		300
ataataataa	taataaaaaa	actaaactgag	ctttatactt	tttctatgcc	actatagctt		360
tctttcacct	cattttttta	atgtcgatct	tcactttatg	ccgttctcag	tattcttcca		420
aaaatcttcg	aacagtagtc	ctacaacgca	aaatttgggg	aaaaatgata	attagaccac		480
atgttaaaag	gcaattttta	tgaaaaaatg	ttnggccatc	nctaactgct	aattacatgt		540
ttttnnng							548

<210> 9201

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9201

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caagctccac	ctcccagggt	cacaccattc	tcctgcctca	gcctcccagag	tagctggggac		120
tacaggtgcc	caccaccacg	cccagcta	tttgtgtatt	tttagtaaaa	atgggggtttc		180
acggtgttag	ccaggacggt	ctcgatctcc	tgacctcgtg	atccgcccgc	cttggccctcc		240
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gagctatata	tgaataactg	agaagagtat	gatattactt	tgattatttt	aaaagtga		420
gggaaaatat	ctaaaaattg	gatatcgatg	atacttctag	accttgatta	tgttattcct		480
gantaatttc	ccttcccagg	atccanaaaa	naaaatnaac	ccccggnaac	ctggtaattt		540
a							541

<210> 9202

<211> 439

00922.0" 69462960

<212> DNA

<213> Homo sapiens

<400> 9202

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cactcgtcca	gttatttctt	agggttctta	acatggaaaa	ngataaatat	atattttaaaa	180
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tttttgtttt	tgttttngaa	ttggaatttt	gctctgttgc	caanctggaa	tcantggcnc	420
gggccccggt	cantggcaa					439

<210> 9203

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9203

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aggtactatg	tctgcagggc	ttttgaaatt	aaagaaacag	tccaggaggg	ctccagtcag	120
acccagaatg	acaccagcca	cacttgtgac	tggcananat	aacctctttg	accttcagca	180
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tttttataag	catagtantt	atatgtcaat	ttacttaaaa	ttaganaggg	aaacccana	360
nacctgaagt	ggcactgccc	atccactgaa	aggcccat	aaataggttc	tcatgtttca	420
tgttatcccg	tctaccannt	a				441

<210> 9204

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9204

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atcaactaac	ttactggctc	tcatttcacc	tgataacata	anacctccc	cgtgactac	180
acacagttta	ggttatcact	ccttatnact	cctgctccct	gccctgcacc	ctaaattctc	240
tgggactcac	cgcagttttc	ctgactctga	tggaatgtgc	tggantctat	tacgaaaccn	300
gcttttccaa	aaggtgctca	acaaggccct	aaaaattttc	ttctggccaa	aggtgggtca	360
aaccaaattn	ctncnggct					379

<210> 9205

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9205

09629469.072800

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cagacaaacc	cataatcttt	gtcagaaatg	gaatttcacc	tgctactogc	tgattttaacc	180
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nacctgggtg	gttcataagc	cggtgcatac	ccccaccctg	cacgtgctct	cccgggtcgg	420
cnccaatctg	gtctgggaac	cgcatcctcc	ncctgaaccc	tccctgggtt	tccnccggt	480
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<210> 9206

<211> 219

<212> DNA

<213> Homo sapiens

<400> 9206

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gaactgaaat	gctgattctg	tccanggggg	ctgctgtatg	tgtnacttgg	gtggcantct	180
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<210> 9207

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9207

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gcactttaca	gaaaaagcat	ctttctgacc	ttgatcatga	agttatgtgc	ttcttgtcgt	180
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agaaacagaa	cctattatat	acatatatta	atggagagag	attgatttat	atttatgtcc	360
cctcnattat	atgtatatat	tggagataat	atatacatat	ttatatatat	tccnagagag	420
aaagaaaaag	agagattttt	tttaaggaat	tggctcnnngt	tattcctgga	acctggcagt	480
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<210> 9208

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9208

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cttttattat	tgtacagcag	tgacagtgc	gacagtgatg	atggcatctc	tctattttta	120
tggaaacatc	tccaggaaat	cccaagctgc	acagtggaga	attacaggaa	cagaaaaagt	180
ggtgtgaagt	ctgtcggctc	cttccctggg	tcaatgagga	gctgaactga	atcatactan	240
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09629469.072800

ggctccta	ataacactca	tttctat	tggtatggt	aacaccatct	tccatttggt	360
ctttcctcca	ctaataat	atccttcact	gaagtcttat	ttctacagtt	taatcttttn	420
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gggnccc						487

<210> 9209

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9209

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ctatttagtc	taagcttta	ttcaaagggt	gagaatgacg	aattcaagaa	tttctttcat	180
acataaattg	ctttccttag	ttctgcagat	gggtaatctg	tttgagataa	gcactgtcat	240
gtttcaacct	tagagaacaa	aaagctatca	acaagatagt	ggtaaagaaa	atgctagcca	300
aaaaataaca	ctattgagaa	ataggtgcgt	attaagtgc	atacttacia	catctctgat	360
gtcaaatgac	caaaatttag	ccttagggca	ctaaagcaca	tttgcccttt	tgaagcacat	420
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<210> 9210

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9210

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tgccagtaca	aagtgaata	tctacatggt	gcattcttgg	ngcttcatgc	atgattat	120
caatgaacct	cttcctgggt	actcttaana	tanatctgag	tttttgactc	nccagtctan	180
ggctttggcg	acactcaatg	acataatatt	cttggaataa	gcagtagcat	ttctgacttt	240
tcatattcag	ctcggagggt	tattgtctcg	ggctcctgtg	cagtcgancg	ccacggctgc	300
tcatcggatg	atccangatg	ggctccttgg	aattttcggg	ttctcgggtc	cgaagatggc	360
cangccgtgt	gtgctcttcc	cagtgccgaa	gtatctatcn	ctcacgggca	anaacttgtc	420
tggttgaaaa	caaaaaactc	tctctttggg	ccncttcctc	ccctnccaaa	aaggcgtnca	480
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<210> 9211

<211> 426

<212> DNA

<213> Homo sapiens

<400> 9211

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caatcttgag	gaggntgatg	tcngtgtnaa	aaactaaatg	agagtccaga	aaggccaggt	120
cataaaacaa	gcctttcttt	atttcaatga	gatagttttc	tccttaggaa	ngacaagana	180
tggttgctag	aaacagtttg	ctttcaagtt	atcaaaacaa	ccacgacagt	tgagaatgtc	240
tggaagac	catttg	ttagattgtc	aactgtctaca	caaacagaat	tttctggagt	300
tgtgacaggc	atcnattaaa	aaacaaaccn	naaaaaaacn	aaaaaaccca	aaaaacaaac	360

acctggcctt ttgaagaatc tatcaagttt taaaaatttc agcatacttg cagtgagccn 420  
anatcc 426

<210> 9212  
<211> 322  
<212> DNA  
<213> Homo sapiens

<400> 9212  
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aacaggaaaa cataaatgtc nggagctaca aactttagta ttcagaggcg gacctatgta 180  
taatggagcc aataagacca aattgacctt tcaggtgttt ccttgctatc tcccaccccc 240  
gctcctcatt tacctcaaga cacaatgggt ttgtgcaaagc attattaaat tgcctantaa 300  
gtcctaaaaat tattncnttt tt 322

<210> 9213  
<211> 312  
<212> DNA  
<213> Homo sapiens

<400> 9213  
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taagtgtggg gattcatctg taaatgotcc caaaaatggc acaaaattgt gctataatgg 180  
aaccaaacaa ccacagtgtt tgtttggggg tttgattttt ctccnataaa aggtacttat 240  
ttanacagta aaatTTTTTTA gtgacaataa aaatttataa cataaagaac ttttgtnttn 300  
ccncattggg cc 312

<210> 9214  
<211> 435  
<212> DNA  
<213> Homo sapiens

<400> 9214  
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tatttcaagc acacattaaa acaattacag agaggacata catttatgat ttatgcaaat 180  
taaggcacat caattacaat ctattttttt aagttagtca gtttaaaaat cttcacttac 240  
aaaaattcaa aatatgtcca agctcaactt tttagtaaga atgttaattt gttgggggtg 300  
ggccatttcc tttttncct taaaggtna acatgaaaac aatgaaggaa atntnggtct 360  
ttgtaaaaca cataaatacc tgtgatgttt tgaatcattt ggnccttaaa aatattgctt 420  
aacaanttaa anccc 435

<210> 9215  
<211> 562  
<212> DNA  
<213> Homo sapiens

09629469.02800

<400> 9215

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gagctggtta	cctattcctc	aattcagctg	aagaagtcag	taatatagg	aaaataatct	120
ttttttgcc	ccagctacaa	agtttagcata	tatgggttaa	aaaaaaaaag	aaaagaaatt	180
ccnaggaaga	aaaaataact	aaaaataact	ctaggcaaaa	agacacaata	atttcaacct	240
gtcttatatt	ggcagcttat	tccatggagt	tctgagatgg	tacacttttc	ataacgacta	300
atatctctct	gaananttgg	aaaaataaac	actgatgact	gctgacagan	ccaganttaa	360
actgtgttct	gtgggtccgc	atcaggcngc	aatccagtg	aaccttctgc	ccgtaatcag	420
atgccatcca	cagtccanca	tattagggcc	tcccgttaa	acaaaggact	ggaccagggt	480
cccaaaaaac	ntcccttgga	atatttggtt	ttatcccggg	ntccttcaat	tcctgaaaat	540
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<210> 9216

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9216

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aagacttgca	gttaatcagt	gtttccnaat	gattaaaaca	atgttcaaat	aattacaaag	180
ttacttcntc	naaataacta	gaaaaatatt	ctgaggagtg	tttgaaagct	ctgtttataa	240
atagtgattg	atacatattt	catgtntttg	gtgctgaana	taaacacttt	ttacataaaa	300
cattgtttta	atatactgct	ctactaatga	ggctagtatt	tagatatact	gtatttttaac	360
actaaggaat	aaagctttat	cttcntatit	atcttattta	taggactctt	atcnatgaan	420
aactttgttt	cccacaataa	taaactggca	aattgcaant	tnc		463

<210> 9217

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9217

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accagggcag	accaccacgc	ctggctaatt	tttgactttt	ttgtaaanac	ggggtttcat	180
catgttgctc	aggctggtct	cgaactcctt	agctcaagca	atctgccgcg	cttggccctt	240
caaagtgcgt	ggattacagg	tgtnaaccac	cgtgcctggc	tgactacagt	tttttaattg	300
cacgtttgtt	ccttgaactg	accactgtgg	gcattccatg	ccttcctcca	ctgccgcctt	360
tttcccaagc	tgaanaanaca	aggaagatgt	ngcntccaat	taaccanaaa	naacaccctg	420
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<210> 9218

<211> 316

<212> DNA

<213> Homo sapiens

09529459.072800



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aaaaatcatc tttcttggct tcacgtaatt atcactcggg gagtgganaa cggctgccga 180  
tancaccagg ccatgccagg ccacgccaac aagggcgtgt gcattcactt tttcattgan 240  
ctgccctcaa aactgctgcc gancctgancc ctgcacgggc ccaagtgttc gccncacccc 300  
acancggtct gaacac 316

<210> 9219  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 9219  
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tcaagggtct tgaacatgga tcaaatgaca gaagtcttta atgcaatggc acagaagctt 120  
ctggcatcag cacctgcaag ccctgttcag tcatcattca tgatcgccaa atactccttc 180  
tggtgttcaa ccagcttcag gaataacttg tatttcttat catagtattt tttatcctgt 240  
agtctcggga acacaacttt cccgactttg ctcatTTTTT ccattgcttc ctgtacagaa 300  
ncgaaatccc ctgaggcaca ngcacccana acagcancac ccacaanaac ggactcccc 360  
tcttgca 368

<210> 9220  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 9220  
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aagtttatac tataaaatta catccctaag tgattagggt cctcagtaac acanaaataa 180  
aaaattgaaa agggctcattg ctcggaatc cacataacta cagantaaan cgcaagctat 240  
tgctcgtgat cagaaanana cttcataaaa acatcttcac atattcccta ncattatgcc 300  
ctactagtaa aaggaaggcc tatgacaatg ccattgttta ttttgtgtna cgcagccctt 360  
ctatttccct caaaantttt tttttcctgc tataagataa anaaaagggn tgtntcccta 420  
aaatatatac ctaatgaaaa attatctcca canaaactcc cacgttttcc attttccctg 480  
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g 541

<210> 9221  
<211> 449  
<212> DNA  
<213> Homo sapiens

<400> 9221  
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ggcgcgatca cagctcactg tatccttgaa ctccctgggt caagcaattc ttctgcctca 120  
gcttcacaag catgaancac catgcctggc taatttttaa aattttttct agaaacagcg 180

tttcaactatg	ttgcacangc	tagccttgaa	ctcctgggct	caagtgatcc	ttcagccttg	240
gcctcctaaa	gcactgggac	tacaggcatg	ancactatgc	ctgcccccta	ctgccccctt	300
tttaaagtac	ctgggaaaaa	caaagtttaa	atattctatt	tttgtgcccc	taattnacat	360
acaatttaag	acactttcan	aattttacct	tattgaaaaa	taattnggtt	gaaaacttta	420
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<210> 9222

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9222

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taaataaaaa	agtgcatttc	tttatcaagc	cttcttaaac	actgaaacgc	acgcattttt	120
atgctcatgt	tcttttagcag	tattttctccc	cttttgcccc	tcattccccct	aaattgtttc	180
aatgagttca	tctgtagaat	gaanattgtt	acctttctta	atgctactta	ctttttatta	240
tctcaatatc	aagaccaatc	tagacttttt	tgtctcttac	atgtgaaatg	gatgtnaaaa	300
atggaaaatt	cncancact	ttttaagata	acataaaaga	agcctaagcc	aagcctttcc	360
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<210> 9223

<211> 387

<212> DNA

<213> Homo sapiens

<400> 9223

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aaaaagacat	tttcttttgc	aaatcaaaaac	aggaaagaaa	ggaaaagctc	aaacaagggtg	180
aaggaaaagc	atttctacag	ctgaatcacg	actgagttga	tcgaagccca	ttgttgctgc	240
acaacanact	gtgcgttttg	tcacagcggc	aatttttttt	tctcttcaca	ttgtgaaatc	300
actttacatt	gttttctagt	anaaaaggca	aaaaattgtt	caaaaccccn	agtgttaa	360
acgtttgtnc	caataaaaaca	ctccnc				387

<210> 9224

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9224

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acttcatgca	aatcgagggc	agaggagtgt	gaataatgat	aaaagggaga	gctgaaaaaa	120
taaacatgat	tctatttggg	cggaatcagt	tcatctccaa	aatcttgaac	gccatgcccc	180
ggctgccaac	ttcacatctc	tcgtttccat	tcctccctca	ctgtcctcct	ccgcggctcc	240
tgggaagggc	acaaggtctt	tggtctcang	atgttgcagg	gtacancatg	goggacaanc	300
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<210> 9225

<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 9225  
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ttgtcaccga ggctggagtg cagtgcagtg gcatgatctc ggntcactgc aacctccacc 120  
tccagggttc aagtgattct cctgcctcag cctcctgagt agctgggact acagatgccc 180  
gccactaagc ctggctaatt tttgtatttt tagtaaanac ggggtttcac catgttgacc 240  
aggctgttct agatcttctg acctcatgat ccgctcgcct tggcctccca aagtgtctggg 300  
attacaggtg tgagccactg caccagcct aaaagtcatt ttaatttgta agatatgttt 360  
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atganttctt gaagttgaat aacaggaaac tgtcttggtt tccaaccatt tngctactgt 480  
tanaaactgc ctggctcncaa aacccccctc aataaactgc agtncctattg ggcaaccctn 540  
ggttgaaaat ttcac 555

<210> 9226  
<211> 329  
<212> DNA  
<213> Homo sapiens

<400> 9226  
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atgctcataa aaattaccag ccagancct ggatttccac cggatccacc acgtgagaca 120  
aaagagtctg tcacttcttc ttgccaggtt tgagggcctt ttctagacct tggatgtgtt 180  
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ggcatccctg ctgaaagatg gcaccctga 329

<210> 9227  
<211> 431  
<212> DNA  
<213> Homo sapiens

<400> 9227  
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acattttcac ccagtggggt cagcttttagc atctcatgaa agtgcttttt agacctagat 180  
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taggtttttc cagaataaca ggaattttac atgatgaaat gtctatttct gtcggtacaa 300  
atcaacgata aaaacaaaat ctacatccaa cctactccaa aataactcnca ctgggactga 360  
atgaagtcta cagtgtcnat gttgtcttga ganaagcccc natatccncc ctgggtacat 420  
acatgttttc c 431

<210> 9228  
<211> 437  
<212> DNA  
<213> Homo sapiens

09629469.072300

<400> 9228

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tccaagagaa	ctttttcggt	ccttcttaag	gtgtttaaaa	aataaatggc	tataaagtat	180
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naattgataa	agagtgaaca	taaaataata	ggatgatatt	attgttacag	tcgtctccag	360
acaggaactg	gtcttgctct	tgcagtcncn	aagctaaatt	cnggcgatga	tgatctctct	420
ctgctggana	aaganaa					437

<210> 9229

<211> 628

<212> DNA

<213> Homo sapiens

<400> 9229

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gccatgataa	ttgccctggc	ccaatgcaat	gtgaacaggt	aaaagacata	ttttacttct	180
gggcctaagc	ttcaanaacc	agtgcataat	ttgttgctct	ctctctctct	aatgcanata	240
acagaagtcc	catgagcctg	ggtcccacaa	anagacatgg	agtgtagcat	ccagcaatgt	300
cgttataaac	ttgtagtggg	aattaacaat	acacatttgt	tgttataaac	taagatttgg	360
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ccaatatttt	tttttctgan	aaatgcntgt	ttattttatc	ccaaaatatt	aaattttaaa	540
aatttttntt	cccaaaattt	ccgttgaaaa	ggttggtttt	ggttaatngg	gaattctccc	600
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<210> 9230

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9230

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gaanattggc	agacttagct	tcatttgtca	tattgtctga	ggcttaaaaa	gactgaatgg	180
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ctcccacaan	gacaccta	aaagatttgg	ggcctctgtc	tntaacaat	aaaagctgac	360
ctcngacaaa	aaaatcttca	ntctgttggc	ctgttgggct	tcc		403

<210> 9231

<211> 362

<212> DNA

<213> Homo sapiens

<400> 9231

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cttataaatg	tacacatata	catccatata	tttgacaaag	tatatatatg	aactgggttaa	120
agacctatcc	naaanaggaa	atattttctag	aaagttcatg	tgttttatact	tcattanaca	180
attaaaactt	atttgaactg	atgaagtttt	agttgcttag	caatgactaa	taataccaat	240
gcctgtcaat	aatgacaact	aaattgagaa	ctataaattt	cactgctgtg	ccttgggtcn	300
aaattttcaa	tgatggaatc	ctaaataagt	nacagttatt	ccnntaatgg	ggtttntttt	360
cc						362

<210> 9232

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9232

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atatatccat	ctatcaaacc	tacgtgtgta	ccccctaga	tctataataa	aagtaaatta	180
aaacaaatca	aataccagtc	aactatttgg	ttgactttgg	ttgtactgat	taactggaaa	240
tgtgcctctg	aagccacaca	gccagagcaa	ctggcctttt	gtcattccca	atgaaaagcc	300
ttgaaanatg	gttctattan	ataacggggc	acactgaagc	taactgtgca	tctagatcac	360
atcaaagcag	tanaagtgan	atttagcnca				390

<210> 9233

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9233

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acaacaaaga	ctgggagtca	ccatatctac	aaaaccataa	ggtctttcca	cttcgggctt	180
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tgaagttcgt	caagcttttt	ctccctgcg	gggaancaaa	ggacgttaat	acgccccttt	360
cctagantaa	tcacaggata	taaacgtttc	ctcnttggga	aaaaaaaggt	ggggagggac	420
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<210> 9234

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9234

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tataanaatc	ataaacaacc	actttaaata	aggcagcccc	cctagcccac	ccactaccct	180
cttctgttcc	ctatctccca	gctttcttag	ccatccccc	ctttctcccc	ttccccacgg	240

ggctgggctt	ggctgcaggt	catggcaggc	cgatgaggca	ggagacacan	aaaggaaggg	300
ggaaanaang	cccaatccct	gatgggggcg	tcagtggcaa	aaaaaacttt	ctgggcaccg	360
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<210> 9235

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9235

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ttacctatga	acatgggttag	gtacaaaggc	catattanat	gtatagacca	cactttgttc	180
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ctactaaaca	aaggcaaata	cacatatata	cacaaacacg	tctcaactaa	aattatacat	300
gtcactttga	caaacaaatt	ctctggtggt	ttcaccanat	atttgcaccc	caaagtcccc	360
tgcccaaadc	ccgaccccaa	atgctgactt	gatctgaana	aaaaaattag	anatgttctt	420
aattaaaggc	acatttggca	gctactgaaa	gtggcatgca	tctggcacag	gtgcctcccc	480
taagccnacc	acatgttcc	tccancanct	gttatgcanc	tgtttccttg	aatggtatcc	540
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<210> 9236

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9236

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tcttgttttg	ttttgttttg	ttttgttttt	tactattatc	attcagtcaa	tttttttcat	180
ttccttcttg	attttattct	tgacccaaca	atcattcaga	agcaagttat	ttaatttccg	240
tgtatttgcg	tggttttgag	ggttattctc	agtgttgatt	tcctatgtta	ttccagtggt	300
ctgagagagt	acttgatata	atttcgattt	ttaaaaattt	gttgagactt	cttttgtggc	360
ctatcatgta	tctgtcttgg	cgaaatgttc	catgtgctga	tnaataaaaag	gtatattctg	420
cattgttagg	taaaagntcc	tgtaaatatc	cgtaantcc	atttattgtt	ggggatatatt	480
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<210> 9237

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9237

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ttgtacattt	gatcaacca	tatttatata	aaactttcat	aaacactttc	aaacagtttt	120
accacacagg	gtgggcaaag	gtgcttgta	atataataaa	actgaacaac	agtgggtanaa	180
aaaggtacac	ttgtacttat	cttcaagttt	aaaatgtaaa	ttttttctgt	tcaatggcca	240
ctacctcata	ttatttttag	gatctgggat	cggacttagc	aacacattat	gactttcaan	300

aagttgagct cactgttttg tggcgttctt tgcanaaaaca ccatgaactt cgggggtgcc 360  
ccatgtttgct gacaantgtc aaaaacaact ggtgtccacc tgacttnagg ctggacttnt 420  
gttataggca ctttgttggc catancnccc c 451

<210> 9238

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9238

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aggatatttg aacgaaggta cataagccta aacaatttca cctaggtaaa atattgatgt 120  
cataaccaa ctatatggcc cgtttcata aaggttacta tattctatan anagtgaana 180  
ggtggccttt ctatcccagc ttaccctatt cttgttattg ttcaaattct cctgaagctt 240  
gcataactag ctgccatcag gtaaatgcta ttggctagca gaagactgca gttctgttaa 300  
tattanaacc ancaggggga acttgggaac ttgacattaa aaatctanaa aacanaattt 360  
taggatgggt ctcgttanaa acctgaattg tt 392

<210> 9239

<211> 211

<212> DNA

<213> Homo sapiens

<400> 9239

anagtgcatt aaataaatat aaattttatt aanacactc ncatagcatt atonggaatg 60  
atataataat aaacagcttt caaataacct gcattcataa cattacaata cttacagtat 120  
ttataaccat ccncanatct tataaaccaa acatctcatg aaaatgaaat gaagctagtt 180  
tttaaaaaag catanaaaaa tgcncacana a 211

<210> 9240

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9240

gagatagagt cncnctctgt tgcccaggct ggagtgcant ggcgcaatct tggctcactt 60  
ctacctctgc ctctgagcc ccaatacaag caattctcct tctcagcct cccaantaac 120  
tggtgatacag gcatgcacca ccatgcccان ataatttttg tatttntagt agnacagag 180  
tttctccatg tnggccaggc tggctttgaa ctccggacct tgtgatccaa cgcctcggc 240  
ctcccaaagt gctgggggta cagggtgtgag ccaccacgcc cagccaggat gcaatcttat 300  
tggtgtgtca cttttacccc angaagcnaa aaagtggaat gagtnagctg gtacgatnaa 360  
ctgtnat 367

<210> 9241

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9241

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tcacctcagc	ctcccaaagc	gctgggattc	caggcgtgag	acaccatgcc	tggcctgtgt	120
ttttaaaccc	atgtcacagg	acgggtattc	gcctgaacag	tattcctgaa	cagaagacag	180
ggaggaaagc	cagccacaca	gcaatacacg	cagcaggatg	cagcttcggg	cacattcaaa	240
aagtgacctc	atgctcatgg	ctgcgcacat	gcagattcag	aaaaaacaaa	cccacgtgcc	300
aagctcctgg	ccatggctgc	tcagggtatt	cngggcgcg	gacttgggga	aggggacaaa	360
ggccccang	gaaacaattt	aaccaagggc	ttaaaatgct	ggccatcttc	aacactgaca	420
ctgtcancaa	tggctgcttc	tgggttnagg	gaactggata	ctgtcatttn	tctatttgna	480
cagttnttaa	aa					492

<210> 9242

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9242

aagaatttta	agtacatttt	attaacaatg	tatccctttg	ataagattat	gcttcaggag	60
gcttttaatg	cccttgacat	aaactataca	cattatacaa	aaacaagaaa	atcacaacaa	120
aaaaaatcaa	ggtgagcaaa	accattttgg	gacaaatctt	atttaaatta	tacacaactc	180
aatgaaatat	tcttacagaa	aaaatataaa	tactttttct	ttctatgtta	cagttataca	240
atataaatca	gatttcaatg	tctgttcagt	gacctacaaa	caccagaacc	tccaaatatg	300
tagcagcgta	ttactaaata	aaaaagaaga	aactcatgtg	gtagagagag	attaagtctg	360
agattttttt	cacaatttct	taccactttt	caaaactagt	ttacaccatt	tgttttacaa	420
tgcagcttta	nggttctgac	aggatatttg	ttcaattanc	tataaaantt	ttttccntcc	480
ccccccctgg	ccccaaaaat	tggcttttgt				509

<210> 9243

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9243

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ggttttcagc	tccatgaggt	catttaagga	cttctctaca	ctggttattt	tagttagcca	180
ttcatcta	cttttttcaa	ggtttttagc	ttctttgcga	tgggttcaga	cttcctcctt	240
tagctcggan	aantttgatt	gtctgaagcc	tacttctctc	aactcgtcaa	agtcattctc	300
tgtccagctt	tgttctgttg	ctggtaagga	nctgcgttcc	tttggaagg	aanaagcgct	360
ctgattttta	naattttcag	cttttctgct	ctgttttttc	cccatctttg	tnaattttaac	420
tacctttggg	tcttgaagan	ggtgatttca	aatgggggtt	tggggttgat	ttccccggtt	480
tgttatttcc	ctctaacta					499

<210> 9244

<211> 570

<212> DNA

<213> Homo sapiens



<400> 9244

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ttagatcaca	aatttgcctt	taagtaacac	ataatacact	taaggcagat	ttgccttaca	120
ggtggcctca	gcttctaacc	accactacac	tgctttatat	aaaaaacaaa	aatcacatag	180
aagagaatct	agtgacatct	ttcttggtat	tttaaaactta	aaaactgcat	aataaattga	240
gttcccataa	aatttcgccc	ttgagatagg	aaacaaacac	tactactatt	ttatagttgc	300
ctttatctga	cttgattgat	gcagttataa	tagtattaat	aacataatct	ttaaatttgt	360
gagggaaaac	caatacttta	tattcnctcc	tcataaaagg	ttcaacagca	agcataatga	420
agancntta	taaaatccta	ttgctaagta	ttactttaac	tcntaattct	gcttatataa	480
gtgtttgcnt	atcccagtta	acaaattcta	tttaattatc	ccagaacttn	tgccaaantt	540
tccttgaatg	gctttaatac	ncggaagnta				570

<210> 9245

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9245

attttaaggg	acgtgtttta	tttcatagct	ttctgcaagc	aaaattgctc	tgatacaaaa	60
tgagttcaat	gatacagggtg	ctactgtcca	ctcaagcaaa	anaaaacctc	ncatgtntat	120
gaacgcactt	tatacttata	ttcttacagt	ataataggtc	taatattccag	gatgcctctg	180
gcctcattga	aagcaatggc	anaaaaatgc	tgcaagggtac	ttgaatatca	tantactggc	240
aagtgtctga	agtaacttcc	tgtgagttct	ctgtcanana	ctgcaaaaac	tgcggtgtggg	300
tgtgtttgtc	tttttagtctt	ccacctttng	gtttacattt	aaatcatctc	anaaaaatct	360
ccctgcatgt	atcattcagc	ttctcagaat	ttccataaaa	acaggaaaat	gtcatgaagt	420
ttccctaact	ccgggantga	ngtagtgctg	tggctgtccc	aaaagatttt	anttacctgt	480
tngtncagta	ctgaatttat	t				501

<210> 9246

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9246

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acacagcaca	gccaggantn	ctggcgcaca	gtgaatacgc	ttccgtcctt	tcaaaagcct	120
ttcccgaacg	gnatcttgtn	aaaaatgcc	aaaataaaat	gaaaaaaact	gccaggaaaa	180
nanaactggc	tttcagtgtt	aacgaaatgg	attctccana	agcatggaaa	tcaggactgc	240
cacncagggg	aacgcacana	caggtccaaa	cgcaaactg	ccccctganc	cccccatctt	300
caaacacgct	catgcacact	ggaggcgctt	ccaccgccag	gccccgctga	anacacagcc	360
gggtngnccc	ccnccaacg	ggcc				384

<210> 9247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9247

09629469.072800

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aacacagcta	aattattttt	ctttatttgt	ttatacacat	tcggtaattt	ctgaaaagca	120
agatttaaaa	atatttatta	acaaaactac	ccaattacaa	tgactgttct	cccatcacg	180
caactatttt	ctgtagctgt	atcttcttac	ctcattccac	tttaactctg	tataccgtat	240
tgatttgtga	tgagatgatt	tattatgaga	actcttaggg	agttctcatc	ttccatttct	300
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gcttaagttt	gttaaaagca	ctcactgaaa	aacattttta	aatttatagg	tcatataaaa	420
taattttaca	agagacagat	gacttcnaat	attatttggc	agtcacctta	ctatgtngaa	480
acataaatga	aacaatctgt	ccacnaaana	ccatcccttt	tggcctttta	aaggaatttn	540
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<210> 9248

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9248

caggggaagg	tataattttt	attgacgtgt	cctcagcaca	aggtctgttt	tcaattttct	60
gagaaatcaa	cttgagtaac	gtataaaaat	taaaacaaca	ctgaactttc	gttccagttg	120
ctgtcaccac	caagcctgtc	ggctggcacc	tggaggagct	gggaacaaaa	ggtaccatgg	180
caggtgaaag	gcccagtgga	ccaacactac	atgggctgat	catttcagct	aatgccttc	240
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ttcctcagtg	cttattttct	agtggttgct	gaactaatac	ttgctaaaca	aatgaattct	420
tctttattca	gagtcatac	aaatacaggt	accttcataa	ncccaatgtt	actgganaca	480
taaaanttga	atcaacanaa	aacaagttct	ccctatatcc	tcnta		525

<210> 9249

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9249

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catatgtgta	accaataatc	acaacaaaga	gtcaaataata	ttatgtgtat	gtagaanaag	120
anaaaactga	ggcttacagg	gactaaataa	tttatccgac	atcaatgctg	gtaaaaatatt	180
caaatgcaat	attcaaacc	agaccagct	gacctccca	cactgccata	ctttcccat	240
gttgccaaaa	cactgctttc	cagagcaccc	agattctgaa	ggaggcccag	gagaaaactca	300
caataccctt	ggctggaaac	agggaaacac	tcacgcacac	acaaaaggaa	aatgtttcca	360
aaatatgtct	ctcgtgaaat	tccacttttg	gtacagaagc	acatatigaa	agaanatttc	420
tctcccatc	atgttgggct	ttgcatctcc	cgttgctgct	actgctgcct	tcttggccaa	480
ttaactgncc	atgttccatg	ttctcncatg	cccatccntc	caggattggg	tccngatttc	540
ctttttgaaa	aaattntccc	cccggctgca	cc			572

<210> 9250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9250

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ttttaataaat	gggttaaact	tttccctttc	tgtaaggnc	tagctgggtt	tctgactagt	120
tgccataaaca	tgtttctcat	ataagcgaaa	ctgaacatgc	tgctgctatt	aatcatcata	180
aactgtaaaa	tgtgggtttc	tggaaaactg	gtactttggg	agttttataa	tccttttgga	240
gtctaagcca	gcacatctct	gtgagttcat	tctaaaaaat	gtgctttgtc	tttatcttta	300
gtaatccaag	accactctaa	aattaaggcc	atcagggaaa	taacaaactg	atgangcatt	360
ttcttatant	gcttttttca	cctactgctt	gaatgaacag	atctttctga	accattttca	420
tcaggccttt	catcatctga	atcaaatcca	aaaaatttct	gacattcttt	tgtgcaaaaa	480
aaacccatt	tgcttctcat	tacataaggt	ggtcgggctt	ttgcccttct	aatncttncc	540
agnattttta	nacctttttc	ttgaata				567

<210> 9251

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9251

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tacacaattt	ttaaactaaa	tctagtaaca	acagaggatg	gaacataaaa	gacacaattc	120
caaatttttag	tcaggttgaa	atgtttttcc	actaactgaa	agataagata	aatgagcagc	180
cattataaag	ttatgggctg	tatgtcaatt	cacgtcttaa	aattgaaagt	cagccacaca	240
gctgttaaaa	caatgggaaa	tttgcaaatg	caaataata	atgcatgcac	agctatcaca	300
tttattcttt	atccttaaag	ccatttttaa	agtaaactgg	gagaggcaac	ttagtaatat	360
gtacatcaag	gcacattctt	ttcttgtgct	ttaggaatga	tttacctgtg	atctgcttat	420
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ttctttgagt	ggtagtttcc	cacaaaanaa	atgtggcatc	tctcatgggt	atttccaagt	540
cagaaaattg	gatacctgaa	gaagtnggat	ttaa			574

<210> 9252

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9252

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ctcaaaaaaa	attcttttaa	ttaaaaaaaa	aaaaaagctt	tactacttcc	tgtggagttc	180
ataaaaagtt	cttccctttg	ttttagtc	ccanantaaa	gtcatagggc	tcaaagtctt	240
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cagacttatc	aggaacatta	agggatggct	tccctggcca	ngaactccct	tccaaaactgc	360
aaangaaaat	tctttttaat	tctgtggaaa	anccttttct	ctgtgtcaag	ttcaacataa	420
aaatatgctg	ctcctggctg	tgcaatctgc	ttgangtnna	aatgctctgg	gaattccaac	480
anccttatct	gcngc					495

<210> 9253

<211> 576

0092270" 69462960

<212> DNA

<213> Homo sapiens

<400> 9253

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cctatgattt	tatgcataca	tccatataca	tatatcaagg	taaagtccag	tacaaaaaaa	120
cagcatttcc	tatggccagt	gttctacaga	agtaagactg	tgcaaacttt	atcgtatagt	180
caaatganat	tgcacactaa	ggcaggatga	ggcanaagca	agttgtgtcc	acagtatatt	240
acaaaatacc	ttgcatagct	tattcattct	cacctggtaa	attcatctta	naattctgaa	300
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taacctganc	tttggggctc	tgcaactgct	tcattgtaat	ccgtgatata	atgactacaa	480
atgttttncg	aantctaato	tccacctgtt	tctcaggoga	attnccaggg	gtccaatccn	540
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<210> 9254

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9254

caaagagaca	ataattttatt	tttaaaaaacc	attaaagact	tgaattaatg	gagagataca	60
gaattatcat	ggatagaaaag	ataacattct	ttccccaat	taatctatan	attcaatgta	120
attctaataa	aaaaccttaa	cccgaattgt	taattctaca	taatcattta	atcctaaagt	180
tcacagaaaag	agcaaggggt	caagaacagt	caaaaccatt	ttgaaatata	ganaaggggtg	240
ggcanaggan	acttccttac	cggatgtcaa	gaatttagga	taaataacag	agagggcatt	300
ataatcagca	gggaaacgtt	ggaccattcc	ataaactgct	aagacaactg	attatccata	360
tgggaaaata	atggacttta	tgccataaac	aaaattnntt	tcaaagtga	ttaacaaaat	420
anaaaggcna	aatcctnaaa	ttttta				446

<210> 9255

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9255

aaaataaaaa	aggtttttgt	gctttattta	ttcntgggtcc	ttttgagttg	aaagggaaaa	60
aagttttaat	attttcaggt	tggtatcnca	aggactgaat	aatacactta	tgaaggnttt	120
caaaaaaatg	cttgattttg	ttctaaagga	aaggctgctg	atggtaattt	gtgtgctgct	180
gtgcaactgg	atgancgtga	actgtcaccg	gaaagcctgc	cagttgaggc	aaattggaan	240
tnntgttctg	ataaaatnac	atatccacag	acatccccnt	ttgctgtgtg	taagcagttg	300
tncca						305

<210> 9256

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9256

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aaaaaacctc	aaactataag	actagacagc	aaagcctatg	ggaacaccat	gaaatgtgtt	120
acaaacattc	tgaacataaa	gttactggct	gttttcattt	ccatttcaat	aactttacta	180
taaaatagtt	gttattcatc	tattttgaaa	tcccaaattc	acatctattc	atacattaaa	240
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atgccaatcc	atgcagaaaa	ataagacaca	atgcaggagt	cagatgagga	ccattaatgc	360
acagataatg	caaacacact	ggccaaaaga	actacagaag	tttttaaaaa	gtattaagta	420
aacagacctc	nagaaaactg	ggttattact	aaacagctct	cactattaac	acccaagttc	480
cttacattaa	ataaattctc	acaganactg	ttanactttt	aattatgaat	ctatccttcc	540
catacccctc	cacccaactc	cccaaattgcc	tactagggaa	gantntaagt	ttnttgg	597

<210> 9257

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9257

aagctggaat	cttgctctgt	ccccaaagctg	gaatgcaatg	gtgtgatctc	agctcactgc	60
aacctctgcc	tccccgggtc	aagogaanct	cctgcctcag	cctcccgagt	agctggggat	120
tacaggcaca	agccaccacg	cctggctagt	ttttgtattt	ttagtaaaaa	tgangtttgc	180
ccatattggc	caggctggtc	tcgaactcct	ggcctcaagt	catctgcctg	cctcagcctc	240
ccaaggtgct	gggattgcan	gcatgaacca	ccgtgcccag	ccaatgactg	tctcttgana	300
agggtgtaan	gacttggcat	acngcaaaac	ccaagatcaa	attcctgggg	cctgccatgg	360
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<210> 9258

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9258

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aagcaatcct	ctcacttttg	ntccccaaaa	tgctggggat	tatgggcata	agccactgtg	120
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cctcagtatc	aacccctcat	cctcatcana	taaacctgct	ctccacaagc	ccttcccacc	420
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<210> 9259

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9259

09629469.072300

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cctaccatcc	atatgacata	ctgattaata	taatcaggat	cactgagttg	atttattaat	180
ggaggaanaa	ttcctcgtgc	aaggatttcc	ctgacaaaagt	atcgcatgat	cttgttctgg	240
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<210> 9260

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9260

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gcgccagcgg	gtgctgtaag	gagcccgcgc	gcggcagggtg	ggaattgatt	ganctggctg	420
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<210> 9261

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9261

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aataaaggtg	ttattaacca	caggaaaagc	tgtttttaag	taatctgaat	aaagttttac	180
tcagtttcat	gactatcaaa	aagtcttgat	ataacactac	agacagaatt	aaggggttta	240
aatttttagga	ttaanaattt	agctatctga	ataattttaa	tttcaaacad	ttttctttcc	300
ctacatttca	ctggcaaaat	taacttcaac	tattattcaa	ttctcctgga	ttatgcaaaa	360
gctgctgaaa	atttgatgta	tgacacattt	ggctgacact	ctattgcaac	ctatgaatgg	420
gtttaactat	tacacagtat	tcattttcct	ttcaaagatt	ttacacaata	gtgacagtna	480
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<210> 9262

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9262

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cattttaaaa	taaaatagtt	tagtcacagt	cacacaaaaac	taccttctaa	ggaaaactgt	180
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cacacttcat	tccaaaatgt	gcttaaatat	caaattcctc	tcncanangc	natgtccatt	540
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<210> 9263

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9263

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gttgatcagg	ctggttttga	aatcctgacc	tcaaagtatc	tgccctgcctc	ggcctcccaa	240
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aggcttcac	canaaaaaan	aatctgtatc	atccttgctt	catctataga	aatataatat	360
aaataaattt	agcaagtgat	atttcctcaa	acttgtttcc	tctttcctcc	tattatctct	420
actccgattt	ccttctactg	tgccttttct	attttcttaa	atatttatga	atctcattgt	480
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<210> 9264

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9264

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gtacatctta	aaataatccn	gaaaaaaata	aactttaaca	cttcataag	ataattggca	480
agtaattaat	atacctccct	tttactttga	gaaaatanat	cccctatttt	cccnngttn	540
tt						542

<210> 9265

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9265

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gagatttctt	cgcgggggct	gccgcgagga	ancaccctcg	cccctgtcgg	tggaaagaag	180
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aacgggttgt	gtatgtgtct	gcagaactgg	ggtgacgccc	atctggttta	ccgctcaggg	300
tgatggaatc	cantgagctg	attaggagaa	cgctgtcatt	ttccccagcc	tgggggtacc	360
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<210> 9266

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9266

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gcacagttct	ttaacagtgc	tcacatcaat	tattctataa	tgaanatgtt	tcatagaactg	180
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ctaaatcagg	tttgggtaaa	tgtgattagc	ttacaagtac	agatttccaa	gtacttagtc	420
cgtttancct	ccttataaat	ttgttaatga	cnccctgaa	cagaaaggac	aatctntcnt	480
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<210> 9267

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9267

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gattttattc	catagtctct	tggacttgag	aatccatttg	agtttcagaa	agaataactaa	180
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tttgcaacat	aaccaacaaa	gatcaggagc	ttaaaacaaa	acaaaacaaa	aacaaacaaa	300
aaacaagttc	atgttatttc	tacaatgtcc	aaaaagaaag	accaagatct	ttgcttaaaa	360
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cttgttaaaa	cagattgagc	cccntctgcn	aagtttgtga	cccagtgttt	ggtgggggcc	480
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<210> 9268

<211> 474

<212> DNA

<213> Homo sapiens



<400> 9268

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tttctcagaa	atgtatcagt	acgttctcca	agttgtgagc	tgttttttca	totttttccg	180
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gttgcaatcc	tgggtctttg	agaactgcat	caataaaaagg	gatcaacgtg	tgcatgtctt	300
catttgtatc	ctttgtaata	tcatttatag	taaactggta	aattgtttct	ctgagttctg	360
tgagacagtc	tagcaaatta	agcaaaccac	angaagggtg	catggggatc	ccgaattaaa	420
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<210> 9269

<211> 386

<212> DNA

<213> Homo sapiens

<400> 9269

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taacacattt	actacagcac	aggaaccaat	gaaggtagag	tgtacaaaaa	actgtaaaca	180
cggcacaata	aatagataaa	acagcagggt	ccgcaccatg	cacatgatgt	gatgacactt	240
catctctaca	caatctcaca	totcacaact	ttgtttgcaa	ttgattttcc	tcccaccccc	300
cacccccaan	tgcaaagcat	cacaaatgaa	catttctgtt	ttcaantnac	atntntacaa	360
gggtatttac	aaatatgcag	tactgt				386

<210> 9270

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9270

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gatgaccact	tcaatagctg	actccatctt	ccattttatt	actggatgat	tcataatcca	180
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gaatcttttg	tgttattctg	actgggtccat	aanaacccaa	ggactatggt	gataatcctg	360
atnatttcan	caacacttcc	aaanttcnct				390

<210> 9271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9271

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ganacatgga	acatatgggg	anggttcttg	cacantgtgt	cctgcccaca	gctganggtg	180
gtggccactg	gggatctgcc	ctcgcgctgg	ccaaggctctg	ccatcactcc	atgangcaaa	240

09629469.072800

actctgactc	ctgctgtcgc	atgttgggta	acacatacag	anccacagct	gcaatancca	300
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tgggcttttc	aaggcattcc	atgcactcct	tgaactccct	ttcacangca	tccanctctt	420
ccttcaagtc	tttctgcttg	gncaataaact	tttccatctg	ctcttgcaac	tgggctgttt	480
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<210> 9272

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9272

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aaaagatagt	accttgaaat	ggtttacagt	taagcaaag	aaatatcaca	aatacaagca	180
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caaagaatta	agaggctgca	ttatataatt	catttttagta	tgtttacctc	aagtactttt	300
agaactagac	tgtattttca	ctgccacaga	tgtatcatgc	agggagtatc	ctggtttaaa	360
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tgaaagatga	nanaaccccc	tgatctccnt	gggtttgtta	aaaattcttc	ccnttccaaa	540
aaaacttttn	ccgtgtaaaa	aat				563

<210> 9273

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9273

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cccacgtaag	gctgtgagat	agacttgatt	tattagtctt	ggtttttagg	ctgaggaaca	180
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cctgactcca	agtcagtang	ttttgtcagt	ctgtgttggt	gttgagana	acagtcggga	300
gacacatgga	ctaacacaaa	angaatggat	gggagancan	gcaaaggttt	ggacctgcct	360
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<210> 9274

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9274

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atctttgttt	gctcatgcat	tccatcnanc	ctncatgcat	ttcctccaca	aaaatttaat	480
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<210> 9275

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9275

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agaccttg	acacaggact	ccctgataac	tgggcatgtt	gtctcgatga	gtcggggaca	180
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tgtctcccct	tcctccacc	atgtcaggct	ccgactgggt	caggccagg	angcaacaga	360
gttgcccag	ccatatcttt	ctggagactc	tgaatcccct	gggacactct	canggcaaca	420
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<210> 9276

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9276

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ncantcaagc	cttgtctttg	taccccatgt	ntcctgtctt	tgttgantca	ctcaaaaatc	360
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<210> 9277

<211> 330

<212> DNA

<213> Homo sapiens

<400> 9277

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<210> 9278

008270.6942360

<211> 537  
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<213> Homo sapiens

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caaacagtgg agganaactt acccaaattcc cagttccctt cttcctctgt tgtcatcggg 300  
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caaaaaggct cantctttgg ctcacagatg tcngtgacaa aatcatggct gcaggcagtc 420  
tgcaaancaa gaaacaaggg ccccggggaa acaaacnaaa gtctgggcag gaaggggccc 480  
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<210> 9279  
<211> 339  
<212> DNA  
<213> Homo sapiens

<400> 9279  
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<210> 9280  
<211> 413  
<212> DNA  
<213> Homo sapiens

<400> 9280  
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cggngtatta agccttgaac aaaaactaaa ggntctgcta cattcattat acttgcaaag 180  
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tgccacatta attacatgtg ttagatttct ttccggcatg aaatctctga tgacgtacaa 300  
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<210> 9281  
<211> 452  
<212> DNA  
<213> Homo sapiens

<400> 9281

000220"6946296

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aaaacattct	taagtcaaac	tggcatttta	ttgtaagtgc	atgggtggga	aatatacaac	180
tgctagtata	atttggcacc	acttccttgc	tttgtgctaa	ggncccaaca	gtttcaccca	240
cctttgcttt	ggtaccattg	gtgcaaattg	cagcaggggtg	aaaanacaaa	actgtattag	300
tattattata	aaaatagttt	aaccttgcan	atgctctaaa	aagatctcgg	ggaccactcc	360
cagggatctg	caggtnacac	ttaaaaaaac	cncgtgctcta	tttgccatat	gctgccaact	420
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<210> 9282

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9282

gcagaaacat	gtactttaat	tcacattttc	tagattctgg	tggtgtacaac	agtaaattat	60
ttggaattct	gttcaaaaatc	aaagctgcac	ctgtagatat	tccttaaaaat	acagtacaca	120
tagattttgtg	tgtgtgtttt	tttaccaaaat	aatttccacg	ataccatgca	cctaattctgt	180
gtatttttgt	gantagctat	ggttttctgca	ggtacctcag	tttgcaaact	actgaaaggt	240
ttactgtgaa	ctgttcccaa	attttcagct	gaaggcaatg	ctgatnaaaa	tcaaaaataac	300
tgtcctttct	tatatacagt	ggcacatagg	cnaagttgaa	aaaacatggc	aaantttcat	360
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<210> 9283

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9283

ccaaaaccac	acagcttccc	tttttattga	tgctcaagaa	gtgaacttta	aatgacattt	60
cataagcaaa	acacaaatga	aaacaccta	tgtgcatgta	tagtataatgt	aaacatacat	120
agtatatgga	ctcaatcatc	ctcatctaaa	tataaaaaga	acaactgggt	ctttgacctc	180
aaaaataaat	tcaatgttgg	cattactgtt	tttaacttac	agtgttttat	atttaacagg	240
aaaaattatg	aataaccaag	tttggtgtgg	tcatggattt	catgttaagg	tataaatana	300
gtttttaaga	aataatctgt	ntaataaaaat	aantttactt	ttgaatcgca	gtacagtcac	360
tnccttcaat	caataaaaaat	atcccttgat	tacaaagcac	cttattttgc	aaatgtnttc	420
aggaaaatan	ctctancatn	ttgaaat				447

<210> 9284

<211> 361

<212> DNA

<213> Homo sapiens

<400> 9284

cctcaggacc	caataaattt	tattttcaggt	ggggataagg	gacaagcaat	gtnaaaacag	60
ggaagggaan	aaggaagtct	ctatnttctg	aaggactgcc	tacccactg	ttganagtgc	120
cacattctgc	ccttttagca	attttaatta	atttttacta	ggacttttgt	aacaccacan	180
aaaccctgtg	gcttcctgtt	aaaatgactg	tgttacatgc	cttattttta	ttaaagtgga	240

09629469.072800

atttaacaaa tacttttatt attttgaagc atttcacna ttctcggtgg aagcaactaca 300  
tcacgaatg ggaaatcnac naatgaaaaa tgaaaaaaa gattatccnt tcccagtnag 360  
c 361

<210> 9285

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9285

actttttgaa agttttcattt aggtgctatc atttaaaaaa tcagaagata tcacttaaga 60  
atccagcatt ctagtttctt tcgaaaaatc agaagatctg gcaacactag gcccacattc 120  
cggcatggca acaaccagct anagcgggtgc tggctgtnc cctctgtgg ggcttgtgct 180  
ctggtttctg aagtcctaac cctcaccagg cccaactgcc acctacgcca gctgcatggc 240  
ccctacactg tgtctctgca cgaggcagcc cancangaag gaacaanagt ggggggtgatg 300  
agaggttgtc ctgttcagcc ctccccacta cccaca 336

<210> 9286

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9286

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caggctctgg ggcagcatcc aagacgctct gtattanata ctgaccagtc tcatgtgcca 180  
ctggtgagga ngaanacaac gtgcttttcc caaagggcga tgatctccc aaatgatgac 240  
ccttctcagg aggagganc gctttcccgg aataaccttt tggctcctta ttcagctgct 300  
gcagcanata ctcatthaatt accaccaagg atctctgact ttcattggaan aatggcaact 360  
gtcttctccc gctttttcca nctnggcaan ctcttggttc caggcaaccc cctgcatgg 420  
tcacctgttg gtttttgtcc aaaaatcanc ataattnttt gactgttgcc cctcccaatt 480  
gaaatggcnc cctnccncc actgttgaat ttttctga 519

<210> 9287

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9287

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caacgcttca acnacttgct gttaatacgg ggaaaacaca ccccaaagc cctgcgtgtg 120  
tcgcacaggc atgctgcctt ggcatgctt tatggaactt ttttaaaact acgtctgcaa 180  
tgtctgcccc ttaaaaaana aaagctgatg ggcagcaaac tgcagccatt tctccatctt 240  
ccttcgcttt cccaccccca tcctgggcag ctttcccctc ccccaatct cctggagggtt 300  
gtggcattaa gctctgcagt tgtgtgcaca ttcaagtgtt tatggcaaaa actggggaaa 360  
aaanancaaa ttgtttccaa gctagancct ccatgttgca actttgcttt anaaaanact 420  
tccatctggg gaaagctcat attctgatga aa 452

<210> 9288  
<211> 483  
<212> DNA  
<213> Homo sapiens

<400> 9288  
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ctcactgcag cctcaaactc ctggggccaa gagatccttc cgtttcagcc tcctgagtag 120  
ttgggaccac aggtatatgc caccacgcat ggctacattt gttttgtttt gttttgttta 180  
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ttcccacagt ctcccaaact gctgggatta cagggtgtgag ctactgcacc aggcaggttt 300  
tttgtctttc tgtgaggga atgtgggaga gacaggga tgttttctat ttttggcctc 360  
tgcaagcttt aatatatatt gctagaagct gttttagtgt cttagagtact ataagtatga 420  
ctgttttacac atagtctctt tagtaatcta aatgtctatg tgaaataana ntocanttgt 480  
gcc 483

<210> 9289  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 9289  
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tgagtagctg ggactacaga tgcccggcac taagcctggc taatttttgt atttttagta 180  
nanacggggt ttcacatgt tgaccaggct gttctagatc ttctgacctc atgatccgct 240  
cgccttggcc tcccaaagt ctgggattac aggtgtgagc cactgcaccc agcctaaaag 300  
tcattttaat ttgtaagata tgtttactgt tttaganana canaagctaa cttttcattt 360  
tcaaggactg ctgaacaatc atccatgaat tcttgaaatt gaataacang aaactgttnc 420  
ttgtttttcc aa 432

<210> 9290  
<211> 499  
<212> DNA  
<213> Homo sapiens

<400> 9290  
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taaaaaatac cagtttgaaa cacattactg aaagtgagtg tacacaataa atagaaaata 120  
gggatgcata gtgctggana cattcaacca acttatcttc atctgttgcc tactgttgta 180  
gacaaaattt gacacacaat tagcatcact gaaagagcag ccaaactacc tcggaaaaag 240  
tgggaaaacta ctggaaaagt agcttaaaagc tctggaccac tcacccnnna aaaaaaaaag 300  
aagaaaatnc cctgtttatc tgggagctag cctcattatg gcaatgaaat ttatctacta 360  
gtcataanaa caatttttaa aatatcaaaa ntccaggga ccttccttaa cagtttttgt 420  
ttttgttttt ggaaacaaat cccctctgtg tgcccaggct ggantgcaca ggggnatntt 480  
ggntaactgc ancccccc 499

<210> 9291

<211> 414  
<212> DNA  
<213> Homo sapiens

<400> 9291  
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atagctagca aaagaaatat gctagcacag ggtggtaact gccaaactaag catgcactga 120  
accaacagac tacttcagta agtccttgat tattgccagc ttttctataa tgttcagggt 180  
ctcaaaggtc actgaatTTt ataattatct ccaaacaatt ttcttcatgg tcatttaagc 240  
tttgtctaaa cagctgggtg tgttgccaag cgacatcacc atctcctctg cttaattctg 300  
cttccaaaat aacttcagtg gcaccagaaa aaatcancat aggantgaaa actgttatch 360  
cctgtcagtt ctacttgtgc tgtatcaaat cgcaatttcc atnctnctgt tcca 414

<210> 9292  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 9292  
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acagtacaat attaatgtna aatgttcagt gcacattaaa cagcatacaa acccattttt 120  
aaagacctat ataggnatac caaatacgtt tagaacaata cactttttca naggcctaaat 180  
taaaaattgt gcttacctct tacctatctt cccccctca acactcttca cagaaaagtt 240  
ttgtcctaca taaaanatat tctatcagcc aactgaaacc tctttttctt aagtatggaa 300  
aacacagcaa gcaaaaatgc taccatgcat agtttccaca aagaacagga acatgcaaac 360  
aagaaacata ctactcaaaa gaaaactccc ctggaatgca agtggatcaa gaacttggcg 420  
atgaagctct ttcaaacctg ttacatctgg aacaatgaan ctatgangtt ttaggtccnc 480  
taaaacccaa gtgggtccnag gcctccttcc ntagtatggc c 521

<210> 9293  
<211> 465  
<212> DNA  
<213> Homo sapiens

<400> 9293  
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gtcttcttcc ctttcatagt tttccccttt gaggataacc cttcaagctc aaaagggcac 120  
aaaagctaaa acgttattca cgtncaaaaat accaagtata tagctgttct gcagtttgat 180  
acagaacaaa agaaaataac ttttctaatt aaatccctca ttctgtactt aggccagact 240  
ccatccccac tacagtTTtta cttgtattaa caggTTaaga ncaatctagg aacatttggc 300  
aaacaagtac attttttaca tggaaaaaac tcaatcaaca tcaccattct ctggtacaag 360  
aaatacaaaa cacatttctt ttaaaaaaat ctcccagtg tgaagtntct tctaagcttc 420  
ccanantatg tctaagctt tataaataat aaatctttca nanat 465

<210> 9294  
<211> 557  
<212> DNA  
<213> Homo sapiens

09629469.072800



<400> 9294

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ggaacacaat	ttcataataa	gtttccacta	tcataacaga	gttgaccagt	tattcagatt	120
aatccatgta	aaacctgata	acccataaac	ctttttctct	tggactataa	actcatagaa	180
ttaaacaagc	acatcctttt	acttcttggt	ggggaggccc	tcttcattga	actttganag	240
gctcaggtca	ctaccacaca	tggaaacct	agagtaggag	ttcgggtagt	atggctcaat	300
tactgctgag	ttaccacttt	tgtcctgctt	ggccaaaagc	gctaaatgga	agagtagatg	360
aaaaagacac	aatgcatata	tttttcattt	ttcaaatcac	ccttttactg	ttcacatttt	420
aaatggagac	aaacaccccg	gaaaacnaag	aacacttatt	tgccaaatcc	ttttcccaac	480
nttaagaccc	ctttgattcc	ctccattact	cccaaagtgt	tgttttccna	aaattccnnt	540
tccttacaaa	tcctgan					557

<210> 9295

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9295

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taccaacagt	acaggtttta	tctttcaaaa	tcatcattta	aacagcaaaa	gaccaagaaa	120
taaaatttga	gtcaattatt	tttcaaaaata	ttctcaatgc	acattatcct	taattccctt	180
attatagtga	aacatacaaa	tacagaaaaa	taccccattt	aacaaatact	agtgttaa	240
ggttatttgg	cttaaaatct	gagttaagaa	aatccttttt	agcaacctac	atacagataa	300
gtagcaaaact	ttattatatt	aaacaaattc	attctgctaa	aacatgtaaa	gaatttcac	360
catcatgtat	tctgatccca	gtacaagtgt	ttattctctt	accgtcacga	ttcttatatg	420
aaggaccaac	tcaaagantt	gtcctagata	taaccttatc	ctctcccca	cacacttcat	480
ccaaaantct	gttcaacaga	tggcaaccgg	gttgcacac	ttcaccatct	gatgccattg	540
gtcccgana	acgtggccag	gcctgtgaaa	naccattcc	nactacngtg	gg	592

<210> 9296

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9296

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cagnaaaaaa	tatcttggtc	tttgccaagg	tanactcagc	cttgtcagca	ggcctgtcct	180
gtgttctcag	gggaggcctt	tacccaaggc	cacaacaaca	gcaggaatcc	cgagtaanac	240
gccaccttga	cggcaggga	ggctggatct	tttcacaggg	caaaactgat	ttgatnaggt	300
gaacagtaag	gtgagcaaan	gtgggaaaagg	ccagtgggtg	aatgcaggaa	cagcaccagn	360
anctagaacc	caactctggc	ctgtgggctg	tctcccggtc	ctcaaaagcg	gganngggtt	420
ccccaccac	caccactgtt	tccccattat	tttctggcat	ctccaaacnc	nggaaaaacc	480
caatncc						487

<210> 9297

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9297

acttccctaa	aggaacctgt	gatgcaaggc	ggaataaaaac	ccctgattca	tgtaagaagg	60
ctgatgtaga	gcagtgggtc	tcagcccagg	gagcccagta	gattcacctg	gggagctcaa	120
aaccggctgt	gtggggctgc	agcccaggcc	aagaaactca	gcatctccgg	catagtgaga	180
agggggctct	gtgttgagga	gtacaattct	ggattcaaat	ctgtcaccta	gtgggtatgt	240
gaccttgagc	anccttctaaa	ccgttttgaa	cataatctca	tctgtgacat	gaaggnttac	300
tcnct						305

<210> 9298

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9298

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atacgcagcc	ctccaatgac	gtgtattaaa	atggcaagtc	tatcactgtt	tgaaatctaa	120
atgaaaacaa	atttattaag	gcacatttga	tctganaatt	taactttctg	gtataatgac	180
agattcattt	cacttttgtc	cccaaaaacac	atgagcacca	aaattgtcaa	agaacactta	240
atatttagta	aaacagtaag	gaatataaaa	attaaggagg	ggaaaaagcg	tttccnaaag	300
gaaatctttg	gagatcgggt	tactgcaaatt	aaaacagact	aaacaccctc	ccgatacaca	360
taaataatac	taactaacag	gtctcaanaa	tggcgaacct	ctgaacacnn	attttaatta	420
atttaanggt	tttcccaatn	cc				442

<210> 9299

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9299

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aaactgagat	gtatgatttg	tctgttagtc	aatttcacac	cctttcattc	tcataagccc	120
caaattttgc	tcagttaagg	agcttgcttt	aggcccacct	atgtaagtct	gttatactag	180
ctaattgtgcc	catttgaata	gttcaagggt	cagctaattgc	tctgagcttc	atggctccag	240
tataaanaac	aaatttaaca	aaattaagct	gttactgtag	ccgaattacc	cttctgctcc	300
acacatatgt	nttgggatct	tgcaggattt	ccatagtgcc	aattatcaaa	ggccttgact	360
acttancatt	gctgtattac	agatgtncaa	actgaggcct	gaaaagtcca	atttaaagtc	420
ntattgaagg	gnccaaaaag	gaagcttatt	ttggggcttt	ggccatttta	cctacttata	480
taaaattgct	gcnaaacacc	ttttaaacnt	ttcaaatntt	ttgacggttt	nna	533

<210> 9300

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9300

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agtaaaactg	anttgttaact	ttttctgtga	atatgcgaat	ttgtatttga	aagantttag	120
acttgatttg	aatgagatgt	atcttgacta	taaagtgttt	tctttttcag	tacaaaatat	180
acaaaccagt	acatgtttta	aacataaata	taactgagaa	taggttatgc	ttctactcaa	240
atgcacttgt	ggaaagtacc	attcatccgc	aaagacactt	ttaataagct	ttgacaggaa	300
nacaaactcg	acagtgttgt	cagattttct	atttaaaatt	acattttatat	taaccccnac	360
ctttcatttt	agcaaaatgg	tttatggntt	cntcnacttt	ataatattta	caaagttaaa	420
cttcnactcc						430

<210> 9301

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9301

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tactttgagt	gtaaaattat	atgcccttaa	ttaacaacat	gtacaaagct	acaaaatgtc	120
atctatacag	attaaaaaca	atttttaaaat	attattttacc	aattattgat	tgaatggttt	180
tactggggta	cgtattttcaa	accttttcagc	caactggcctt	tcagtttttaa	gccccaaattg	240
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taacattgta	gtanaaacan	attttgcata	tgtgaaaagg	taattttataa	aatacattaa	360
tcacttttta	aaaagaactt	anttgttagta	tcattaactc	ncatgggtac	tgaaaaactg	420
gacctttcac	aatttttttt	ttctataaaa	anttcancnt	acctntaagc	aaa	473

<210> 9302

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9302

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gataatgtcc	tttacagaat	cccagtatgt	ncaacagata	cagcagancc	tgtctgtttg	120
aaggtgggag	gccctgcagc	cctgtctccc	tgcctcctgc	tctatcgcca	cacccccact	180
gcagcctaca	aggttcctaa	ggtacttttg	gaaaatccta	ggcctctgag	gaacagtttg	240
aaanactact	ttagaaaatc	tttcaagact	aacgttcaac	tctatcctaa	attataagat	300
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agcacccctan	ggagaacaca	atgtttctca	aagcacaaag	acctcnagct	ctgagccccc	420
tcctgtntta	cctgggggaa	tccttaacct	tctaggccctt	anctncctcc	cttntgaatt	480
ta						482

<210> 9303

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9303

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cctacacatg	aaaaagtaaa	ttattggatc	caggcaaaca	ttacacgcag	acaagaaaag	240
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gtgactaaaa	gtaaaaggaa	ttctgcacaa	gtgatatgg	agaaagcagg	tnaaaaacac	360
agccacaaca	accctgatgc	tctggttatg	ttttcgcttt	cggcttgact	gacttatgaa	420
ttgcctgctg	gatttgtgga	tgttctggat	atggctatgt	tacatccgat	cagaatccca	480
ccacggcaca	aacaancact	gttcccatag	gttactgcog	tatgcccttt	gancccaaaa	540
ggacttttaa	tttttgaacn	atc				563

<210> 9307

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9307

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ggattacggg	tgcccaccac	catgccacgc	taattcttgt	atTTTTtagta	aaaatgggggt	180
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ctganattaa	atgaaaaaca	tcctataaat	agtttgtccc	aggcaccatc	taagcacaaa	360
atacagtgg	ggataaaaaca	aaaaacaaat	ccctgccttc	ctggaactga	aattccaagg	420
cgttaaagtg	gaaaaagcaa	aatcaaaaaa	ttagctntca	attcgTTTT	aaaaccncac	480
cccantgggt	gcccaaccatt	ggcattttcc				510

<210> 9308

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9308

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tataggcgcg	caccaccaca	cctgtctaata	ttttgtattt	ttagtaaana	tggggtttca	180
cgatgttggc	caggctggtc	tctaactcct	gacctcgtga	gctgcccgcc	ttggcctccc	240
aaagtgctgg	gattacaggc	gtgagccacc	gcgcccgcgc	aacacctctt	aagggtcaag	300
tnctgattta	agacctgggg	gtccatcaag	aatgacaaat	gctcccggct	ctcgggcggt	360
tcccggccaa	tggaagaaaa	accacttgn	aaaaaaacat	gctcaactcn	aacaggacct	420
gaacatnaa	aaaaaat					437

<210> 9309

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9309

ggaacaanan	attttaactt	tttatggcaa	aatttactgg	tgtcaattgt	attttaattg	60
aaaggtcaac	accatgttgc	tgtctctatt	ccactgaaca	aaaatgactt	tgaatanag	120
gaaaanaata	gccagtttta	actggcgana	attttttaaa	atcacatttt	cacaacacta	180

caacatatgg	anatgtinnac	agttagtctt	taacacanan	tgctgtagta	ttttatactg	240
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acacttctag	gtntaaatat	ggaggaaaan	cttctgctcc	cgcotcaana	aaagtggact	360
cccnaagggt	acctgtctca	ttttaaaacc	tataccatga	aaaccaattc	ccanttccta	420
cactctgttc	taccttcata	atittncttt	cacatatattc	tttccgccag	ccatccaggc	480
tcctgccant	tattaacttc	cncaaaataa	tcccatttnc	cctccttccc	cctnanaaag	540
gactnctttt	aanttt					556

<210> 9310

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9310

ctggctaatt	ttgtttttta	atgagaaaca	tctgagttgt	acatatcaca	aacagcttca	60
agtttctgta	ccaaccccc	gccccaccc	ccgccgtggc	caaacagtta	aaacccaaag	120
caaagcatca	ctttggatgt	gaaaaagtct	tanaaaatta	acttacaaaa	acatccctat	180
caagtccgta	gtttggcatt	tactttacat	tagtcaaaaag	ctccagctaa	aatctaattt	240
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cacaaataac	cacatccatg	caatataatt	tctttaaaaa	tttaaagcna	tataaaagag	360
caganctagg	tnctgaacag	aacatttttg	tgtataaccg	gcagctcaaa	attgccagct	420
gattggaatt	aaactgaatc	taacgtttta	aatatgaatg	atgtttccnt	ccactaangg	480
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<210> 9311

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9311

acatttgcct	ggttttttatt	gagtggatct	ctcacgacaa	aatcatgaat	attacactga	60
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ttttgatgcc	tgggtaaaag	cttaagcatg	cacgttacat	ttgtatgggt	tcatcaaaaa	180
agtttttgat	gcctagttag	actttggcct	gcggaaaatc	tctatcacat	ataattatta	240
taaatgctct	ttagtatgga	ttctctgatg	ttgatgaatg	tttgaagtca	taatggtttc	300
ccactcncag	tgttttttgtt	tctctcaagc	atgaattttt	gcaatattgt	acaatgtgag	360
aattgtgcca	naaanaactt	gccacattca	ttacatttgt	tagggttctc	accancaaaa	420
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<210> 9312

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9312

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atccaaggaa	tcctcccact	tcggcctacc	aaagtgtctga	natttcaggc	gtgagctact	120
gcaccagcc	agtcacttac	aagtgtgtct	gatttcaca	tatttgtgag	tttcccaact	180

tttcattggt	ttctaacttc	atcccatgtg	gtcagagggc	atgctttgca	tgatttcagt	240
ctacttatat	ttattaaggc	ttgttttatg	ctttaactta	tgacctat	ttggagatgt	300
tcatatgcac	tcnaaaaaaa	tatgtattct	gatgttgggt	ggaaagtct	atanatgtct	360
tttaggtcaa	tttgcccttat	aatgtttgtc	aagtcttcta	tttcctgggt	tatctnctgt	420
ctaggtgctc	tattattgaa	aaaaggggtt	ttnaatatcc	canc		464

<210> 9313

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9313

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tgtcatgaac	ttaaaatcca	aatatgacat	aagcagtttt	aagaacttatt	ttggccagcc	120
tccccaatcc	caaaggagat	ttaaaagtaa	taatgtaaaa	aagttaagggt	caagggtgtt	180
taaaatcaac	atctcagcta	atgactaacc	ctttgtttcc	tggggacttc	tgctctactg	240
tgaaaactgc	tgancctaac	ccgctgttga	acaactgggt	agttattagt	tccctgggtg	300
attgtccctg	aagttaagcc	atgctctggg	gacacatgag	gcactttaat	tggggtagtt	360
actttttcca	ggttgggtac	aatgtttggc	tctcaaaaac	aaggtaaaca	gtttacagtc	420
aaaaagaatg	ctctgtgaat	gtntnccctt	gggatcaagg	gttgaaatct	taaaattttc	480
cccctaacct	ccttttcnag	tttcccaaaa	aaattttaaa	ggtt		524

<210> 9314

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9314

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caatcctggc	attattataa	aagatttccc	ttatctaatt	ggaactaaga	agtgatatgt	120
tttaatctga	gatatttcta	gactgacata	aaaagtaaag	ttttgaattt	ggctatatca	180
cttaacccat	aaacaagctt	agtacacctt	acttcagatt	ccttatgaat	aaattctgac	240
tttgatagaa	aaattaacac	aagtttattg	tatgttttgt	gtgtcagaaa	ttgtgctaca	300
tgatagaaaa	cacacagaaa	cataagattc	tcataaggnt	aaggactatg	aaatataagg	360
aaatcaataa	aattagccaa	aatgcctcat	gaaaatgcaa	atcatgtttt	aaatgctaaa	420
gagactcata	ttaactgtat	agaactttat	attcccacnc	nttatgaaan	tgaaccacca	480
gtgaa						485

<210> 9315

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9315

cacaaaaaga	tgtattttca	ttcatgagta	tttacatttt	tcatatttgt	ttaaagaata	60
tcatataact	gataccttct	gaaatgtttc	atgcttttaa	actcttctat	ttacacttat	120
ctgacatgga	attaaaacta	aaatgggtcaa	ataccatgat	aatagaaagc	aaccagccaa	180
catagctagg	tcttctctta	aatttgcgtga	tcaacattag	cagtagttac	cttaataata	240

-3584/13211-

aattattcat	ttttaaataca	gtagtaactt	tagacaattc	ataaataagt	gtgctctgtg	300
caatttacac	gtttaatatc	ctgtggatac	taaaagcttg	tatattgtca	gatttgcaca	360
ttattacttt	atcaaaaaca	gtaagctttc	ccaaagatga	agctggggaa	acttgaaaan	420
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<210> 9316

<211> 332

<212> DNA

<213> Homo sapiens

<400> 9316

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ttgtgagaaa	ccatttccac	atttcanatc	taatgggtgt	ctcatgacat	tgcaaagtag	120
tattttatgc	cctcaaaaact	gaaccttaag	gtananacaa	ttgctccccg	ggccaaacac	180
agatccctcc	aaccctctac	tgtaccttan	gaaagctggg	gtaaactaca	gattcaacaa	240
aatctcaata	agaaaaatccc	aaaaaccttc	cccaatgccc	tgtggtttgg	cctgaacata	300
nggaaaatgg	actgctgggt	ggctacnnaa	ca			332

<210> 9317

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9317

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aagacttcca	ggagcaggca	ttgaagggtt	ggcacccctg	gtgagtgtcc	aagggtcagcg	120
agagtcactt	gtggagggga	cggaagatga	cctggctgat	ctggccaggg	atgggtgtaga	180
agaccaggag	gaggaagacg	gtgagcagca	ccagtagcag	cagcaccagg	gtgcgccagt	240
accggcgcca	gatgaagaag	acaaaggtct	tcagcgggtt	cacaaaccag	ttgaaggaag	300
ttttggggcg	gctgggtttc	tccagaggct	ctggctgctt	ccgccccttc	cccactggcc	360
gtttctcggc	ctcctccaca	gtcagcagct	caaactctgc	ctccaccttg	cccgtgagga	420
tgtncnctt	gccacccatn	tctgtgaact	ccangtctnc	tggccggncc	ttcctcctcc	480
tctgctttcg	cttct					495

<210> 9318

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9318

aacaggaagg	attattttatt	cttcttttata	gtgttatcaa	ttgatacaat	gtcccaaatg	60
ttgagaaaat	gctaaacttt	tagcctacaa	ggattacctt	aacaaccaac	agaacacaag	120
cagtcatcct	tacaaatcgt	agttttaccc	cagtataag	tttgtctaac	ctccagcctg	180
cgctgtttct	caggatcttc	ctcattcatg	attcgctcct	tctctgctct	ttttttctcc	240
tcccgccgan	actgtgctgc	ttcctgtctt	tgcacatgtg	tcagtttcaa	gaaattctct	300
tctactcggg	nacggntctt	atctgctttt	tgtttg			336

<210> 9319

09629469.07800



<211> 437  
<212> DNA  
<213> Homo sapiens

<400> 9319  
gagacagant ctcactctgt caccacaggct ggagtgcagt ggcatgatct cgctcactgt 60  
aacctctgcc ccccanagtt caagtgattc tcttgccctca gcctcccaag tagctaggat 120  
tacagggtgcg tgccaccaca cttgggttaat tttttttttt tttttttttt tgaaatggag 180  
tctcactctg ttgcccaggc tggantgcaa tggatcaatc tcggctcact ataacttctg 240  
cccccggtt caagcgattc tccccgcctc agcctcctga gttnctggga ttataggcac 300  
ctgccaccac atctggctaa tttttgtatt tttagtataa anaaggtttc atcaccttgg 360  
gcaagttggt cttgaacttc tgaactccag gtgatcctcc tgcctcance tcccaaattg 420  
ttgggattac cacttna 437

<210> 9320  
<211> 477  
<212> DNA  
<213> Homo sapiens

<400> 9320  
aatgaattct aggatgaaag accaaaaatta ggaaagaaca aagatgcatt catgaattca 60  
agaggagtca taaagaagcc aagagtattt taacttacac agtaataaca taacattaat 120  
caaaagttac agaanaacaca gctcaggctt gtaggtttac aggcaatana cactgtaattg 180  
acagtgtttt ttttttttgt cagtacttct atatgaatta cgtttcatct tttatttcta 240  
tatccattca catgctacat aatgttcaact cttgtaaact cccaacacat tccagttggc 300  
tccattaact tcaggaggatt ctgtagcacc tctgattgtt aataggatac acaactccca 360  
taggggaata ttatctcccc actgagccaa gctaactgtg agangtatca ccttcccaac 420  
cagccttctt ccgccccttt ctgangcatc gagctgcagc tccaggtnga caatcca 477

<210> 9321  
<211> 429  
<212> DNA  
<213> Homo sapiens

<400> 9321  
ggagcttttt aaacaaataa acaaacaaaa tagacaaaac ataattttac ccacaagtac 60  
ttcagtatgc atttctaaca aattaggatc tttaaaaaaa cataacaaca atatcatatc 120  
acacctatca agattaacaa taactcctca atgtcagtcc atatccattt aaactctttg 180  
taatggagga acatattcct ttaaatacaa gcttgtagaa tcacacaatt taagtggaaat 240  
aaggtgaagg gaangagaga ggcagagtcc tgcccttcac ctttgtccca gaagtttgaa 300  
aagtttgaaa gtcgtatatt tacccttgac agttcgaaag tcgctatatt acccctgacc 360  
ctccttttgc atcctgagaa aactgaagg tccananaaa aaacggtaaa tgggtcaagg 420  
cataaanca 429

<210> 9322  
<211> 455  
<212> DNA  
<213> Homo sapiens

008270 69462960



<400> 9325

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ccatgggcac	aatacatttt	gtaaattcta	atttgtattc	nntgtcttgg	ggtagggag	120
gaatgattaa	nataaagaaa	tagatcagta	atctctctac	ttcactaana	tgagggaagg	180
gaaaagtgt	atgtacaggt	caaaataatg	ctgaaatgca	naatgctttt	canaantatg	240
ccattagacc	ttcaaatgtg	ctgtaggtgc	taatagtact	tgtctaacaa	gaaaatattg	300
agtcattgtc	tttgaaggt	tttaaaactgt	tttatgtccc	aaacacatcc	ctaccaggcg	360
tantaagant	aatccattaa	tgttttcnnt	gattaaaagt	tgaaattata	naatattgtg	420
gaaatntntt	tttgcattaa	cttttatttt	aatcccc			457

<210> 9326

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9326

aatttataaa	ggaaagangt	ttaattgact	cactgttcca	catggctggg	gaggcctcag	60
gaaacttaca	atcatggcag	acagtgaana	ngaacaaggc	atcttcacaa	ggtggcagga	120
aggagaatga	acacaggagg	aactatcaaa	cttataaaaat	catcagatct	cgtgagaact	180
atcacaagaa	cagcatgggg	gaaccgcccc	caanatccaa	ttacctccac	ctgatctctc	240
ccttgatgtg	gggattatag	ggattacaat	tcnagatgat	attttaggtg	ggggcacagc	300
taaaccntat	cctacnagga	atgactgaaa	ctaaagatac	taatttcctt	tcccttgggt	360
ggccaagctg	tcntcttc					378

<210> 9327

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9327

acataagtgg	tctcatctac	ataacaaggc	cacccttttg	ctagccaagg	ctaaactgaa	60
ggantagtgg	tggtgaccca	atgtgaaaat	tgtgccctgt	tcactacana	aacctgagtt	120
tggttcctaa	gtctagtctt	ncctgtttga	tatttgtgtt	acttttaaag	cgtcagcagt	180
ttgtcccagc	tatgatgtgg	taataaaaaga	ttcaaaaagga	ttttcttcac	aagttctatg	240
attaaaagct	taattaaaag	caaatttctt	ttttttttta	attgtacttt	aagttctggg	300
gtacatgtgc	aaaacatgca	ggttacatan	gtatacacat	gccatgggtg	cttgctgcat	360
ccatcaaccc	atgatctaca	ttanttatit	ctcctaattg	catccctctc	ctagcccccc	420
accctganag	gccnaatgtg	tgatgttccc	c			451

<210> 9328

<211> 265

<212> DNA

<213> Homo sapiens

<400> 9328

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ccatcttttta	atttttttga	aaaattcctg	acattacaga	actaaactga	aatgtnttaa	120
tattccactc	ttacatttcc	atgacaaaaca	gaaaaattca	tgagccaaaa	aaaaaaaaacc	180

naaaaaaaaa aaaaaccagg ganaagctta taaaactaaa tatggatctc agcatcaaca 240  
gctgaacana aaaaggaatt aaaac 265

<210> 9329

<211> 397

<212> DNA

<213> Homo sapiens

<400> 9329

ccaattttaat gcccttttatt ttctgatggg tgccaagtca cttactacat aaactacaac 60  
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catttacata caaaattcac ttgaggcttt ctggttgaaa ctttcaatag ctttaaaaaat 180  
tatattctct aattttttaa tcacttgacg ttttaagctca ttganaaac ttttttctcc 240  
ttcanagtac cgtattcatt tatcacagca aaaacgcacc ttttaaagggtt tgtttttgtt 300  
atggttgctg tttgttcccn tatgtttgtt tgtatgcntg ttttttaagt atgatactga 360  
aggcngaaac aatctgaatt ccatattccg gttcaca 397

<210> 9330

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9330

gaaangngt tttgctcttc ttgcccangc tggantgccca cggngcgatc ttgntctac 60  
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ntacaggcat gcgccaacac accccgttaa tttttagtatt ttagtaaana cgggggtttct 180  
ccatattggt caggctggtc tcgaactcca ggtcaggaan atctcagggtg atcttcccgt 240  
ctcggcctcc caaagtgtg ggattacagg catganccac tgcgcctgtc cattccttat 300  
tcttaatcag ataanaattg ctggttttca caactaatta ctccacctca aaccaanatg 360  
ccaccacacg cttaaagctc aaaatttctc taaatatgcn tccatttnat tgtgtttttc 420  
cactatctcc aaggaanaaa aaatctgaat tnccatttta atccccnct tccnccctaa 480  
ttgggaaaaa atacnataac tattcctttc ctnttaactt caaatctttc cccgggtccc 540  
tccaatcttc ccnnn 556

<210> 9331

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9331

cagttaaaat gtagttttatc taaatctcaa aatgtttaat aaaaacaagt atctttctcca 60  
tttaacactt tgcttttctaa ctgtacagta aattgcattg tagagagtac acttctgtct 120  
tcaaaactgta tcttcttttg atggaattaa gatgtaactg tatagtttta agataaataa 180  
atgggaagtt ggtccaacta agatgacagc agatatatta catgcaggat ttaatatattt 240  
ctaattctct ctttttaaaa aaangatgct gttggattgg gaaaaaaaaa agtctaaaaa 300  
gaaccanat tcaatatata aaaatgtccc ncaata 336

<210> 9332

<211> 446  
<212> DNA  
<213> Homo sapiens

<400> 9332  
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cctacttttc aactttctgt tagagctcta agttatttta cttagtacga ggtagtgttt 120  
ctggcatcaa aagataaatt ttaaattcct gctttttcaa atttgcgat gatttttgca 180  
tatgatttgt ttcagtgggt tcttgggtgt ctttattttg ttgcagggag aggctgaagg 240  
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aaacttttagg aaaaaggatt cccttttttt aaaaaaaatc aataacctcaa aancagcttt 360  
gggacaagaa aacccaaagt ggnctgcttt tcccaccag gancicatta tcccattctg 420  
tgccactgaa ttaggaaact gactgt 446

<210> 9333  
<211> 341  
<212> DNA  
<213> Homo sapiens

<400> 9333  
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cctgaatgtg aanatcggtg accgaaancc tgatgccagc ctccctcttg gtcttgactg 180  
aatcttccc aggttgctat tggattttgc atgttcgaac ctccatcaga ngatagactt 240  
aggcatatgg tttgccnngt gaattgaaaa atctccanan tttatgaatt gaanaatggg 300  
atgaatacca tacacngagc accgaacaaa ccatcnaat c 341

<210> 9334  
<211> 468  
<212> DNA  
<213> Homo sapiens

<400> 9334  
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ctcaagcgt ccacctgcct cgggctccca aagtgccagg attacaggcg tgagccaccg 120  
cgcccgcca cacaaggcat tttggcatta acgtatcaag tcttaaaaaat ctgtatatca 180  
tttgtcccc aaattttatt tctagggatc tgatgcaaag aaatagatca aatatataaa 240  
aagcacgtac cagtacagta ataataattt aaatgtcaaa acattgaaaa caaattatgc 300  
cacataaaca tagtgggcca ctgcacattt atttaaaaaa aaagattata naaacttgga 360  
tataaaaatt tgcagctggg cgttgtggct catgcctgta atcccaccac ttttgggaagg 420  
ctnaggcagg cggatcacia agtcnaaaaa aaattnttta ggaaatcc 468

<210> 9335  
<211> 499  
<212> DNA  
<213> Homo sapiens

<400> 9335

000220.6942960

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tacagtatca	atatagacta	tcttgagaaa	ataggtgtga	aacagaactt	ctctatcatt	180
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atacttanga	ataaacctaa	ccaaggaagt	gaaatacttg	ttgaatgatt	agaaagaaag	420
actctgaaag	aaagccnaga	aggttaaaat	aattnaaaag	gcccccgttt	tcctggatag	480
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<210> 9336

<211> 365

<212> DNA

<213> Homo sapiens

<400> 9336

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caggaaagtt	gcccnatagc	ctgtcccatc	tgagggtcct	ttacatgatt	agatactcaa	180
tatctcagtt	ccacaacgtt	atttacanac	atgttttcaa	atatttcgtg	tnaatggcag	240
aanggagctg	ggagcagtc	ccctgcctcc	attacttttt	tagctttcac	atatgttctt	300
gacttgtaca	naaaatcccn	aattttaaat	gattcccccna	ctcancagtt	tctntnaatn	360
aagcc						365

<210> 9337

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9337

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caatcctccc	actttggctt	cccaaagtgc	tganattaca	ggcatgancc	actatgccc	120
acctgagcag	gatgacttaa	acctgatcaa	ttctactcca	aaacagcaac	tatcattaan	180
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gggataanaa	gcccattcct	ancaaactgc	aggagtgc	ctggcatana	attcatggcc	300
agccctaact	aatgtgatgg	gtggcangga	ngaagcatct	gctcantgtt	caaacaaaat	360
ccttacaagt	tctggggctg	gaactctgtg	tcctcctgaa	tcccatgtt	tccnttacct	420
ttacaaaaaa	ctggttttgt	tcctgtttgc	cnaagggcc	aaaccgtttt	cctaaattac	480
cttcntaana	ataaattacc	ccctngnaaa	aaaaaaaccc	caaaaattt	ttgggttccc	540
cnn						543

<210> 9338

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9338

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gtacacggtg	gtaaattgtat	agctcaataa	atctaattgaa	ataaacacac	caatgtttaca	120
gatcaagaaa	gangacatta	ctagcttcca	gatgccctat	catgtggctt	cccagtttag	180
ttccctcaag	gataatgaat	attctgacta	ttaatgtcat	agatcagttt	tatcttcttt	240
tgaagtttat	gtaagtggaa	tcttttctgt	ctgggtcaata	tcatgtttcc	ganattcatc	300
tatattgttg	ccttttagttg	gagactgttc	attctcatta	ctggatggcc	atcctgtgaa	360
tatacttggg	cagttaatat	ttgatcaatt	aatttcttcc	ctcaagggtta	gotcaaaaagt	420
tgaacatggg	ctccctacac	cgccctgatt	tcaatctgaa	atccncagga	anaatcccc	480
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<210> 9339

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9339

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ctgaatattg	taaattacat	ttttcttcat	aaaagggtaca	tactattctg	cacttttcca	180
ccaaaagcag	tggtgtgtta	tgcttggtat	ataaaaaaaa	gttatatcct	gtggcaggaa	240
aaaccctttc	tctttcactt	ttactaaaca	actggagaaa	atgttcaagt	ctgtataaag	300
ttgcctataa	gctggaaaagt	gaacttggtc	aatctccatt	tacatttttag	tgcatttttt	360
gacaattgtc	acatttttaa	caaaaagtnag	aaaatgcnta	tanccctaaa	gaatttttcc	420
t						421

<210> 9340

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9340

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nacttccana	aaggaaaggg	angangggca	aacactgtgc	ctaccangtg	ctgcctgccc	120
cgtcctgctt	cctgcaggan	gtgggaaggg	anaaaaaacg	gacatttcgcg	ccatcaagta	180
tctccccagt	tttcanccac	tatattcagt	tgtggaggan	gaaactgagg	cacacgcac	240
cccccaggct	tctacttgct	agtccaaggt	ttaacttact	ccctcccctc	atctctaccc	300
ccagcaaaat	gagctgtaag	cagcctgggg	agggtctcag	gagcccatct	ggtggcctgt	360
ggagcggggc	aggccancca	aggtcaaagg	ctaagggttg	ggggancaa	aagggtgtgg	420
ctggaagaac	actgctggcg	gtggggggan	tcgcactcaa	taagggaacc	anctgggggt	480
ccatactgat	acattgggga	caggcaaaaac	ctcncittca	aanaggaaat	taaggtnaaa	540
accnccntct	ttgttagaag	ggctcctcca	ctatcngtn			579

<210> 9341

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9341

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atggttggag	aaaacagtat	ttcatgacac	atgaaaatta	cacaaaactc	aagtttcagt	120
ttgcagaaat	aaagctctat	tgaacacag	ccacctgcat	tccttcatct	agtaattacc	180
tggctgcttt	cgtgctacaa	cagctgagtt	cagcagcagc	aacagagact	ataaaaagccc	240
acaaagcttg	aactatttac	tgcattgggccc	tttccagaaa	aaaatttgat	gacacctggt	300
atagggacag	anaatagctt	gacgggttgcc	acggtaaaaag	gtggggaang	agctgaccac	360
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<210> 9342

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9342

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 9343

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9343

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tctgcttgat	caattctcct	attaaaagac	tctgatgaat	tcttcagtat	gccaaattcc	120
anaatttctg	ctttattcat	tttagttatt	tcaatctcta	ctaaatttgt	ctgatanaat	180
tctgaattcc	ttcttttgtg	tatcttgatt	tttctttgag	tctcctcaaa	acagctattt	240
tgaattctct	gtctgaaagg	tcacatatcc	gtttctccan	gattgggtccc	tagtgcctta	300
tttagttcat	ttgggtgaggt	catgctttcc	tggatgggtca	tgacacttgt	aaatatttgt	360
ctgtgtttgg	gcattgaaaa	nttaggtatt	cattgtantc	ttctcagtct	gggcttggtt	420
gtacccatcc	tccttgggaa	ggnttccata	tattcaaaaag	gacttggga		469

<210> 9344

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9344

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aaaataacat	ttcattcaaa	ctgtatatata	ttcagtaaag	ttttttatac	agcaagcaat	180
gcttaaacc	tggaaaatct	gtagaaaaga	gattttcaca	caaaataaga	aaagaaaaat	240



ctgaggtatc	cctcacacac	acacatccat	tcattctggc	ccatgtacgt	gcacatacac	300
acgcatgcct	gtgtgttcac	acagacatat	tcattctcac	tcacaaagt	gctgcagcat	360
angcaaaaat	tgtaggtcc	aaaggaaaat	gattgattgt	tctaataaag	antccgagta	420
gctcagaaaa	aaaaaccaa	acnaaaccc				449

<210> 9345

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9345

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ctccacctcc	tgggttcagg	tgattctcct	ccatcagcct	cccaagtagc	tgggattaca	120
ggtgcccgcc	atcactcctg	gctaattttt	ctattttagt	aaanatgggt	ttttgtcatg	180
ttggccacgc	tggtttcaaa	cccttgacct	caggtgattc	tctggcctca	gcctcccaaa	240
gtccagggat	tacaggtgtg	agccaccaca	cctggcttct	tttaactctg	caaagggcca	300
ggtctggcat	acagtttgaa	atttgctgcc	anantcccat	tttgcaatcc	cnaacttctg	360
gtggaaa						367

<210> 9346

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9346

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tttccagcca	ttcttacaag	gaacaaatgc	aaaattaaag	tnataactgt	caacagagga	180
gctgtattaa	agctacgtat	caaccttgaa	aatcagaaaa	cacaaagtga	tctagtgcag	240
tgattctcaa	ctttagtgtg	tatcagaatc	acttggtatt	tggaaaaagc	accttcagag	300
agctgaagga	aaatcatcag	gtcnagcaag	cccttggtct	cagaataaat	atccaagaga	360
ctaaagatac	gtgctttgtt	cctcnnggaa	gaagggnagga	caaaatatnc	taccatatnn	420
aa						422

<210> 9347

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9347

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accagtatca	ctgatctgat	atttacaaaa	atttgtattt	ttcaataaat	taaagtcaat	120
gcaacaccca	tgcaagctag	agtgctagct	gtttgggtgaa	caaggacgtg	acatcagaac	180
aagaagtcta	taagtcccaa	actttacaag	tgtgatcatt	ttcaaactgc	atccattcct	240
cgcattgaan	atgtgaaacc	caaaccatn	cctctttgtg	tgtgggtttg	tgatcttgcc	300
atttcatact	gagcatctaa	atttcgaaat	acttcttcct	gctgcttcan	aatcttggtta	360
ctttcttcat	caactgaagc	tacatccagc	ttcatcttca	ctcttaatac	ccatcaattn	420
cctaaatttg	anattgggg					439

<210> 9348  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 9348  
ccatttatat cacacttta gtgcacttgg ggtagtggat ctaacatgtc tatttaacat 60  
tgctggagtt cccttaataa accctgttaa ggtataaagt aaaacatgca aagcattttt 120  
aattttacaa atccctataa aaacgancta aaagagagcc aaaatgactg gaggtaaaaa 180  
tgtaacttaa acgantgata tgacattaac tataatttct gaaatctgga aaaatccctc 240  
aaaattgggg taaaaacttc cagtgcana gtagattttg ana 283

<210> 9349  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 9349  
aagctgaaaa gacgctcatg anaccaaggg ganggcaggt nccaaaggca agggctgggc 60  
cctgancttc tggcttcctg gtgcctggta catantaggt gttgactgga ttgaggacaa 120  
aggaaaatan aattttcnaa gggattaggg ctaanactcn aaaaaaaact gcccnaagggt 180  
gattcttgac tgtgccaaan ctgaccgagg tctgtccaan acctaaggat gctacaagggt 240  
gttcatattg ancatgggggt gcccagggtg gtctgtcaat cnaaaaaaaaa aggctgtnac 300  
tggaagaaa attataantt tnggaaaata ccaaatingga acnggggaaa gggactgcc 360  
tntccc 366

<210> 9350  
<211> 535  
<212> DNA  
<213> Homo sapiens

<400> 9350  
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ctgggattac aggcattgag caccacgtcc gggtaatatt tgaatttttt agtatanacg 180  
gggtttcacc atgttggcca ggctgggtct aaactcctga cctcaagcga tctgcctgcc 240  
tcggcccccac agantgctgg gactacaggc atgagccact gagcccggt tgcagtgtgc 300  
ttttagacaa cagaacaaac agatgatatg ggaaaagggc tcggattcac ctggcttcaa 360  
atcctgggtg tgacacccat aactctgtng ccttgggtcac ncctcttata ctctctgaaa 420  
ctcagtctct tcttccaaac atngaagana aacctccctg aagggttgc tctnaagctt 480  
aaataataaa taaaagtctt ggcncctgggg ctnanttnta cttggtgccc caaca 535

<210> 9351  
<211> 356  
<212> DNA  
<213> Homo sapiens

09629469.072800

<400> 9351  
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gggtagggat ctggagtcta aagagcagag ccaggcaaaa ggaggtacag gaagcccccg 180  
atgggggctg ggctcccgga gtgtgggtgct ggggggtcat gggcttcagg ccggccccctc 240  
ttcaggcatt cctagcaaag ccaccagggg ctccangggg gtgggggtcc catgggcaca 300  
nggtgggtgc tncatgcttg cgcaagtcgc tggcactcaa naangccttg gganna 356

<210> 9352

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9352  
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catactattt tgctantcta catgggtncat ttatttccaa caagcttaan anttaccatg 120  
aatgggntca ttcatacaaa aacacactca cactaattct tttaaaacag tagtgcatac 180  
attatactcc tcctataaaag ccaactttga ttaaaaacca ctantttcaa agctcagtct 240  
ctgattttga anatgaacca agatatacnc catatgatcc tacaatctat tttagtcat 300  
ttgtncagct gctatcttat tggactacag taaatatatt ttaaaaggac accaatgang 360  
ggcaccatct ggtgttnacc ttaaccanaa agctggtttc ctctctctcc ccccaaaaaac 420  
tttgggcaan aattctcnc tgtnaaaant gaaaggactg gtgactttcc gcatcatcct 480  
gtttcccttg gaagttacaa aaacagggcn tgttccctt aatcnacccc ctactnaanc 540  
ccantggtcc taaattnaan ttc 563

<210> 9353

<211> 372

<212> DNA

<213> Homo sapiens

<400> 9353  
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tgccacccc agcctctgaa agtgctggga ttacaggcat gagccaccat gtccagcaca 120  
ctttaatatt cactatgggc cctcaaaagg aaatgtttgt ggggccacca aaagcaaatg 180  
tctcttgaac ctantcacct ggggggacaa gtgtgggaaa gtgcacctgt gttcccatga 240  
naccactca agaggagcag aaatcctgtt ttgctatttc cttaattgct actaaggctg 300  
ggattttttc atgtttattg gcccctctac atttttttct ttaaaaaaat tcnnaaacn 360  
tgtttatatt tg 372

<210> 9354

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9354  
gtaaanacag ggttttgcca tgttgcccac cctggtcttg aattcctggt ttcaagcgat 60  
ccaccacat gggcctccca aagtgtggt attccanaag tgagccactg cacctgacct 120  
gggcctattc ttgacctttc tttttgtgtc tcagtttctg tatctgtaaa atggaaataa 180

009240" 69462960

caatacctac	ctcgtaaggt	tgtgaanaaa	attaaaatga	gaatacctat	aaagcactta	240
aataaaaataa	ggcctagtag	atagtatata	ctctataaat	ggcatctgct	atgattataa	300
ctattgttat	taatatctaa	tgttctctat	tattctccaa	tacaaatcat	ttgatgttat	360
tttggcccgt	ttcctgcatg	atctcttctt	gcttattccc	cccctaccag	nanttcattc	420
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<210> 9355

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9355

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tacaccgtag	tatcctcaaa	aaaggctttg	aaattaanat	tactgtccac	atattggatt	180
agttattgat	gaataagcaa	atcagcccct	ttcaaaagan	atcagttagt	cctattctac	240
gtggtttcta	gtgaaatagt	ccagcaaaaat	catataatac	tgtgtcaaac	tttttctgct	300
cttctttttt	taaaaaccaa	acaacagacc	ttcattctag	ggaacagcag	ttctacatct	360
tttaccocct	cgggtgaggta	aaagtgtcaa	tanagaagtt	actactatat	tcccctccca	420
aatttttaga	angagcagta	aaaataaggt	tttgatgaaa	ttcccataaa	atatttaact	480
cattattgtc	tcatgtcana	aacaaaaata	aggccatttc	ntgttataac	atgaatataa	540
taacctcccc	ttgttccaaa	taaccaaatg	gtaagttccc	tctttccccc	ttcttaagaa	600
gtttncntt	ttt					613

<210> 9356

<211> 301

<212> DNA

<213> Homo sapiens

<400> 9356

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gttcccaaac	tgganttcaa	cagtcttaga	aattcagtg	tctaagaact	gcagttcttg	120
antccaacct	cctgggaaaa	gtgaagtata	aaactctggc	tccagctgct	tgttccggta	180
cttggtgaca	atgtcgggtga	ttttctgttt	ccggcggaca	tgggggggac	tgtangaatc	240
actttccagt	ctctttcttc	tacaaatggt	aattacagtc	tgcttcacca	naaagccaan	300
a						301

<210> 9357

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9357

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tgcagantca	aactcctgg	cttaananac	cttccttctc	atcctcctga	gtatctggga	120
ctatgggtgc	atgccaccat	atctaagttt	taaaaattaa	ttttgtacta	aagganggtc	180
ttgctatgtt	gctgaggccg	atgttaatat	tttataaaa	aaaaacatga	cacaacagtt	240
caaactgggtg	cttttttgca	cctatcctgc	actataaaaa	taaaaactta	aacatagcag	300

ttacatggca	ttccatttcc	ttttgacatc	acaatacatt	aaataggatc	ttttcaaaaa	360
gtaagacagt	ctatttttct	atttcgtaaa	aataccacag	gctggaattc	taaacagatt	420
tttttttttt	ccttaaggga	tctttattcc	ccnccncccc	taaaaaagac	ctgaaaacag	480
gtcctcctta	nccatcctac	tttaaaattt	cttcccaatt	nttttngggg	aaaccggaaa	540
aatccnaaa	ccttggtcca	tttttttaaa	ntganggn			578

<210> 9358

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9358

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tcggntcact	gcaagctccg	cctccccggg	tcatgccatt	ctcctgcctc	agcctcccg	120
ntaactggga	ttacaggcgc	cgcgccaccac	gcccggntaa	ctttttgtat	tttttagtaaa	180
aacgggggtt	caccgtgtta	gccangatgg	tctccatctc	ctgacctcgt	gatccgaatt	240
aggcactaaa	ttttaagcat	aacatganca	ctctccaggg	tgagaancca	tcaaaatcac	300
gtttgcaagg	ttgtctgcga	acctccacgg	gaaaaancaa	ccaggccaag	tacctgacat	360
tacatgggtg	acacctggct	ccctgcagct	gctgccaaag	aangctgtna	aaaggtcctg	420
ccccnctat	aaagctgttg	gttcctgcct	gccacnccac	tcttgggttg	tgggttntna	480
aattgggaaa	aaaccccnaa	atna				504

<210> 9359

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9359

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tgccacctc	ggcctcccaa	agtgttggga	ttacaggcgt	gaaccaccgc	accagccga	120
atgtntctaa	cactactgaa	atgtgcactt	anaaatgatt	canatggtaa	attttgttat	180
acgtatttta	ccataagttt	aaaaaaaagga	aaaaaaaagg	agcagggaan	gccacatctt	240
tccacttggt	gtccaactag	tgcctatgtg	gggaggcact	ggtgtgggcc	annaaaatcc	300
tgagggccct	ca					312

<210> 9360

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9360

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tttcccgtgg	catgtctcta	aaacaactaa	aacaaccctc	tacgtctaata	cagtcacct	120
anatatcgag	tggaagtctt	ttcacatttg	ctgtttataa	ttcctgaatg	gtccatattg	180
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cctggaggac	gttaaccaat	tctgtatca	caaagacgtg	agtggcatca	atgtcttgca	300
tgatgaactt	cncaggcttc	catttttggt	cactttggga	tggttttcct	gtcgaactgc	360
gtggaaaagc	angaagcaca	ctgtccactg	taggggtcct	ggtccanca		409

<210> 9361  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 9361  
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caaacaaggc tgaatcctgg gtgttttatg tcctaaggat ctgaaaagtg ttcacggcca 180  
gccctgacct tcaagacctc aaatgggtcat ctaagcagta acgtaaattg gtgtgtaaac 240  
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aactaatgtc tttctaggca tttaaaataa gggggaatgt gttgattact ccgacaggca 360  
acccaactgc agtggcctaa tgcccaaggc tgacaaattc tgcatcttat cactcccgtc 420  
aagtggcatg tgaatactgt cnncccaaaa gaattgagaa acaacttgcn ttccaaaact 480  
ctncatctcn ncaaaatctn ga 502

<210> 9362  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 9362  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
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<210> 9363  
<211> 583  
<212> DNA  
<213> Homo sapiens

<400> 9363  
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acaggtgcat gccaccacac ccagctaatt tttgtatitt ttagggana nggttttgcc 180  
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caaagtgtct ggtgtgagcc accttgccca gccacaagaa ggatttccca gttgcctcat 300  
tgccggcagtt gccgggagct cccccaagaa aaacagggaa ctgggggaact gtgggcatgg 360  
gtaggantga aaccagtctg aatcaccctt tggaatctgc atcgtgttcc ctactcaac 420  
aaatattcct gttttccggt nggcaaaaaa naggtccccc ccggaaaaaa acaaaagaat 480  
tttgcatitt ctgtcaatca acaaaacctg gggaantccc ncccnggaa gcaggaaaaag 540  
ccttaaaaac tnccggcggg naattccggg ttnaaacccn aag 583



aggtctgtct	tgttctaaag	cttgcctttt	gtaactcctg	cacattaaac	aaataatcac	180
aactaatttc	ttaaataatt	acaaaaaanc	caagtgtttt	gaantataaa	tacaaagggc	240
taccgaagca	taaaatggga	attggaaaaa	tacctaccnc	ncccaaaatt	attgtnaaaa	300
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<210> 9368

<211> 369

<212> DNA

<213> Homo sapiens

<400> 9368

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ctgtgaggct	ttacatccca	tgtttgctgg	agaacagagg	gattctctaa	gagtgtagt	180
atttcttcag	atagttcctt	catcttgcct	tcaattattt	cagangcctc	acaggcagtc	240
cccattattc	ccagtcattg	attcatttca	gcttatttcc	aactcagcta	tccttggtc	300
tgaaaagctg	tcatcactgg	catcactgta	tctatcactg	ggaaaanant	ttgcaaccct	360
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<210> 9369

<211> 297

<212> DNA

<213> Homo sapiens

<400> 9369

gacattttta	aagccatttt	aatgggaaat	tacatcctac	atacagggtg	tattccaaga	60
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gccacttcag	gaggactatc	ttttatttgt	agtgttttgt	gtgccacagc	tgcaagatga	180
cttaaagtta	gaaggtaact	gacgatatgc	ctgggttgaa	agtcctgana	tgattttata	240
agcacctcgt	cgaacctgan	aagatgctga	anaattgaaa	cagactgttg	ctcttgt	297

<210> 9370

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9370

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cacgcttcca	gaatacaaag	tacttaatac	atattttcaa	acctgtttgc	atttcaaaca	120
aagttagcgt	ttttgtaaat	caaatttgat	aacccgacta	aaaatatttt	ccagctttat	180
tatttaagga	gctgcacagc	ctttaaagt	gggaccagga	ngcaggcaga	ggcaganaga	240
ctgaatgcac	ccaggactgc	gcagcagtct	acagcaacat	gtcccacaac	tttggtgctg	300
gaaacacaag	ttatgcacaa	gacagctgcc	ctccngtgtc	aggatcctgt	gaaacagcat	360
atcaaaagat	cgccngcttc	ttataattta	cacactttcc	nttaagaatg	gctttttgaa	420
aaaattcttt	aaaaatgccn	ttttaattta	atttcc			456

<210> 9371

<211> 395



<212> DNA

<213> Homo sapiens

<400> 9371

aagtttgcaa	atcttttata	tttccagctg	ttgagacagt	atttttgagg	gntgatgtta	60
cctctagcgg	ngaaaccaga	nccagctatt	aagcagccag	aaagctacag	taattgaata	120
catgaccatt	tctcttttag	cacgttcttt	gttctcctct	tccagaagtt	gtagacgtct	180
atthagtttg	attatctgtc	gtcttagtga	agctgcatct	acaacagtca	ggcatctctga	240
cgttccttca	atggttgtat	ctatatattga	aatgccatac	ctgacgttgt	catgatgagg	300
attagaagtg	gcggcagcag	acccaccacg	caacacaggt	ctaaggcagg	tttttgcggg	360
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<210> 9372

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9372

aaaaaaaaa	gtctcccatg	ttggctaagg	ggggtctcga	antcctgggg	tcaaantgat	60
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gattctttta	gaccttcagc	agcccatcat	ttcaagatga	tatggtctta	tcccctgaac	180
taggtatctg	acctcaatca	tagctgagtc	ccagacttcc	aatgaacctt	acacccccacc	240
actccccag	tgatccttca	tgttgatgca	caatcactca	cacaccctcg	catgagccca	300
gcacttccca	ccctcaacca	tgctttgatc	aactgcagtc	tggttccact	gtggccatgg	360
agcttgttta	gttacatgtt	ttcccacagg	ggctgccctg	gcaccccaac	tcccaattta	420
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<210> 9373

<211> 450

<212> DNA

<213> Homo sapiens

<400> 9373

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aaaaaacaaa	ctatcctcat	atatatatat	acagtgtcaa	cattttcaga	gcacttacat	120
taggaaacat	tgtttctctt	caactgtatg	acaatactgt	atatgccaca	ataaaattta	180
caaaaacaat	cgcacagca	gtcataacaa	acatcatgat	tttacatttc	aatacacaa	240
aaaaaaaaata	ggcatcttcc	cggcacttgg	ctccgcctg	acggcaacgt	ctcctccaca	300
ctttgagaga	cctcagcttt	taaaacccag	cagcggctat	ttcagaagtc	atgtcctttc	360
cagatccaaa	cttaaataat	ganaaaattg	ccatttcnaa	ataactgaag	aattttattcc	420
tggaatttgg	gaaatttaac	ccccccaaan				450

<210> 9374

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9374

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ttaaggccat	ttatatgaaa	taagggtttt	aagcacagct	gtacagttta	ggacagtaag	120
agctccaaaa	atgtctacat	agctttccaa	atctcgtatc	agtcagtctc	tccgtgtgtc	180
gtgggagctg	cctgcgcttc	cgtgaacggg	acactgagaa	atgcttcaat	atgtgccacg	240
ccattccaga	aaactccctg	canaagcagc	tcttcctgca	gcactcaacc	ttgtgttatt	300
ttcctggact	tcttttatgt	ggcagatatt	tatgttttca	tcatggttga	anaanctgct	360
tggaaacagg	tnagctgcaa	ntgcatgcta	ctcttganc	tgtnccanga		410

<210> 9375

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9375

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gacatagaac	tttcttctag	acaaagatta	ggaaaaaatt	agtacattca	cgctttcaac	120
agaaatacat	tacatatatt	ttcagttttg	ttttacagtc	atagacacaa	tcatattgaa	180
actacatatg	gataaattgt	aagttattaa	gtaatgattt	tcattttgtat	tacatgatga	240
gtttcacaac	atgaggatta	catatttcaa	tatggcatat	actatttttg	aaccacataa	300
agcaatatag	tacaaaataa	tgtaacagtt	actgtaaagt	cagtaatgcc	acttggcaaa	360
tacatcaaat	atgccaccga	aaaccagtcc	aagcatgaga	catgacatct	ttcattttcta	420
aactataagc	ccittgaaag	ganggacntt	nggaccc			457

<210> 9376

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9376

cccagancag	gtgcgtttat	ttttatatgc	aaatatatca	cccttcaatg	catatacaat	60
agttataagg	tctgaaaact	aagtctatca	nananaattg	caatcccttg	actcatatgt	120
gttcacccct	ccatgganag	cctcattatt	tcatacaata	aacatgccag	aaaaggattc	180
tggggaaaaa	acctgtatca	gctcaaaagg	anaggttttc	ttaaactgtc	tgggggttact	240
gaggtcaaac	aanatgactg	catctgtttt	acaggaaaaa	tcaaattcaa	agtactaatc	300
gtaacaagga	ctaggctagt	tctgatgttt	actttcctac	ctacagctac	tctgtaatga	360
aacaaataat	attaacaacc	ccagagtga	ctaagttttac	acatgccaaa	tatcacatct	420
tattcnttat	ctcccacaag	cnatacaaaa	tgtaactggg	gtatctnaat	taaaggcncc	480
aattcttaat	tntccanttt	cccagaatat	ttnaaaaaga	aaaaatccat	tcnccttaac	540
cttattttnc	tactcctaaa					560

<210> 9377

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9377

accacagaaa	aactgtttta	tatagctctc	taactccttt	aagaactgct	ttaggaattt	60
ttattttggc	tttaagtggg	atcacttaca	tctanacatc	ctttgaagca	aaaccactta	120

gaaaccagta	ttttgtgcta	aggaagggaa	gaaatactac	aaaatgttgc	aaaacagaac	180
aaaaagctta	aaggtttaag	aaattttaag	gcacagatat	ttcacatcaa	ttcanatttt	240
atagtatgca	aacatgaaat	aaaccaccgt	gttacaacaa	atatgtgcta	gcgattggtt	300
agatttcaca	cttctctcca	aatgtnacac	tgtcacattg	catttcctct	ctanatgtat	360
actgatagca	ctgggaaaga	tgttcagatg	cagggacaat	cccnatgttt	accaaacttc	420
tgaaagatga	atatncgcta	caaacttagt	tccnaatatg	aaatgaaaa		469

<210> 9378

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9378

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tcctcccact	ttggcctccc	aaagtgtctg	gattacaagt	gtaagccatc	atggcagggtg	120
ttgtttttaa	tgtgttaact	tgctangcta	ccagctgcca	tttgtttaat	caaacactaa	180
tctaggtgtt	gctatgaagg	tattttgtag	atgtgattaa	aatccataat	ctgttgactt	240
taagtaatgg	agattatcct	gaataatgtg	gatgggcctg	attcaattag	gtgaaaggtc	300
ttaaaagtag	ggctgaagct	tccctgagag	caagaaattc	cacttataga	taactgcttc	360
agcccatgcc	tgaatttccc	tgcccttcct	gacagcctgc	ccccaaaatt	tcagacttgc	420
ctagctagcc	cctacaattg	cataaactct	ctctctatac	ttcgtactgg	gttctgcttc	480
tctaagttct	gaaccttgan	tgatatgcc	gcttgttatt	tatttgccaa	aacaatcctt	540
ccaaaatcta	attaanccct	gtctattttt	tcccatccgt	ncct		584

<210> 9379

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9379

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caaccttcac	ctccaggatg	cacataattc	tcgtgctcta	ncctcctgag	tancctggggc	120
tatangaca	tgccaccacg	cctggataat	ttttattttt	attttttggt	aaaacgggggt	180
ttcaccatgt	tggccaggct	ggtctcaaac	gtctgacctc	aagtgttttg	cccgccctcag	240
cctcccaaag	tgctgggatt	acaggcgtga	gccactgtgc	caggcctttt	tttttttttt	300
tttttttttg	angcagggtc	tggtctgtgt	gcccanaanatg	gaatacagtg	gcacaatctc	360
agctcactgc	aacctctacc	tccggggccc	aaaccatcct	cccacctcag	cctcacaant	420
atctgggant	acangcgcac	aacatcacac	ctggctaatt	tttttgantt	ttggtaaaaa	480
nagaattttc	atcntntt					498

<210> 9380

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9380

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tcttagggan	gtcacagcaa	caaggcgaaa	caataattaa	agtncaacag	aaagtagtgc	120

agttctcgct	gtggaaagaa	cggtccgcaa	gcagctggcc	cgggatgcct	gcacccangt	180
ctaagctgaa	agacaanggg	tctcgggtgtt	cccncanctc	taaaactgtg	gctggggggct	240
ggctcaagaa	atcatcttca	nggtgatgtg	ggggatncan	gtggaatgcg	gtgangaaaa	300
aaagaaggcg	ctgggctccc	ggcccctgtc	canaattgac	tcccnanaag	aatccca	357

<210> 9381

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9381

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tctaaataga	aatattaagt	tgcagtaaaa	aganaaaaaa	aggntattta	gcattacaaa	120
naatcatatt	taaaggctgc	ccaatgtnga	ntctantgac	ctgttcagga	cacctgaaat	180
ataattaaat	gacaattatc	aaggttttta	caattttataa	ttctaaacca	gangattata	240
aagaagtgca	aattgacttt	tacattcaac	tttagttaaa	tgaaggcact	cagtattctt	300
cctgaataat	acattccagt	ttctcacatt	ttatgctttc	atctattcng	aattatttctn	360
tagttaaata	atctactctt	atcnccactg	ttttaacgaa	ttcntaatnt	ttggaaaggc	420
ctntaaacct	taaccn					436

<210> 9382

<211> 371

<212> DNA

<213> Homo sapiens

<400> 9382

acaaatactc	catgtttttac	tagatgtgag	caaattcatta	agcagcaagt	ttagttttggc	60
gacaaaattg	taacatctac	tacaatatat	cttcaaaaaga	aatcattcac	aaccacactc	120
acatgacaag	aagacctcac	agactcnaaa	taaataggaa	aaactcatac	ataaataactg	180
tcccgttcca	acactganac	tctcagtcac	gcagaaaaca	aattgaggca	ttgagtggag	240
gcaaagggca	cttctgcagg	aactgaccct	caaattaggg	attctcaacc	cgtcttccta	300
ngatgagcaa	tggatgattt	gcttggaggc	tccttggttca	gaaatatcct	ttctccctgt	360
ccanggtgnc	a					371

<210> 9383

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9383

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ctgtcctgtg	ggaccagga	ccagagaggg	agctgcagag	gacagggctg	gacagagggt	120
agccctgggt	cttcaggaac	accagccacc	cagccatgag	agagggaggg	gaaggaggca	180
atgtgggtac	caagagtcca	gaaggactca	ggcctcagcc	ccagggtcga	gatggagtcc	240
cagctctcct	atccaaaccc	actccccgac	ccatgggctc	ttgggctggg	agcatcgctg	300
catttagtca	agtttgagga	gtctgaaaaa	tattttccag	aagataaagt	cttgggtcat	360
cgatgcccc	gcttcacagt	cogtgccctc	attctcagcc	cctcaccatc	cgtgcgccac	420
ctggggccca	gcagccgcct	goggctggac	ntctccaggc	ctggcatcct	ccactgggtn	480

attctgtccc tagnaagaant nngcn

505

<210> 9384

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9384

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ccaaatgcc	agcaatgata	nactgggtaa	agaaaatgtg	gcacatacac	accatggaat	120
actatgcagc	cataaaaaag	aatgagttca	tgtcctttgc	aggacatgg	atgaagctgg	180
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tcataagtgg	gagttgaaca	atganatcac	atggacacag	ggaggggaac	atcacacact	300
gggacctgtc	aggggggttg	gaacaagggg	agggaaaacg	ttaanacaaa	tacctaatac	360
atgtgggact	taaaacctaa	atgacagggt	gataagggtg	ggcaaaccac	catggcacat	420
atatacctaa	ntaccaaac	tgcattgtct	ggacatattc	ccaaanctta	aattaaatta	480
tttaaaaaaa	aaaaaactgg	tttatnctat	ccaaatttcc	ccnttcnttg	gacncaaaat	540
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<210> 9385

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9385

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aattaggtca	caaaagggat	gcaaaatgtt	tgcagtttga	ctattatata	ttcacacagc	120
taaagtcatt	catcaactct	tacaccaata	cataanatta	ttccatgatt	aaaagcccaa	180
atctaataac	cttaagctac	attagtggat	ctcttttcat	attataanat	tttagcaata	240
cttccaatat	tgatttcctt	accaaattga	atctanaagc	ttaaattttta	aaaattgtta	300
aaggatgact	aaaactcttc	aaaccacagta	gcagggttta	cagaaaattc	tagaacaagt	360
gagataaaat	actgagcaag	ataataagta	tacatgtata	actttcccat	tttattcact	420
attctaatac	taatacacca	ttacggaatt	ttgcagaagt	tgaccactg	ggtacaaatc	480
acttaaanac	caaactcttt	gttactgttc	tctccaaatt	tgntaacata	agggtgtcna	540
cttaatcccc	ttcttatatn	tttcccnaaa	atttcc			576

<210> 9386

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9386

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taaagacaat	aaacagctaa	gctactgaca	taaaatatac	aataaattta	tgagatataa	120
ggtacagatg	agaaaaatct	gaaataagtt	tttaacttca	tttagcctat	taggaacatg	180
aagatgtctg	gaattgatgc	tggccttggt	ctcaagtact	ttttcccata	tgtattcggt	240
ttatccttcc	agaaagcata	tcatattaga	gtgtctaaga	aatcagtga	tcactaagtt	300
ttccatctta	ccgaagtaca	aaacattatt	tcaaattctag	gccttctgac	agaatccaat	360

atctatTTTT	atacttactt	ttctttctac	taagttcttt	aataaaaatta	tgaatcagaa	420
agcaagtaca	agacatgctt	atttcccaca	gaaatatcnt	tgaagactta	agaagaataa	480
atngccngtn	cttctaataa	atcccaaat	tggacatttg	ggaacaatat	aattgccata	540
ctaattatat	cttttattaa	aaaanaactt	ttccagcttg	gtttccaaac	tcttttn	597

<210> 9387

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9387

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ggttggaag	atcctctgct	ctgtcctctg	gcctcctgct	gcctctgggc	catcagttgg	120
actggaggag	ctggacgggc	acatagtttt	cctcagaggc	accatcctca	tcctccttgg	180
gaggggaagc	caggacaggg	ttctcganag	ttcgaggggac	acctgcccct	gacgggtcct	240
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caccancgct	catcggggct	gccatctggc	ttaatgccaa	cggtcancat	cacacctgcc	360
cgctgcttct	tcctgcacca	ccaatagcca	ttctccatct	ccagnanaaa	aatgctttct	420
gcacttccaa	atgctccact	ntcattggcg	aaactnttga	cngtctccct	catgaagggc	480
aataaacntt	ttnaacacc					499

<210> 9388

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9388

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gtatttgata	agtgaacaaa	tgagtgaatg	gatgaatgat	gagtgaatga	atgaatgaat	120
gaatgaatga	agtccttctt	gacgtcccct	gtccacagtg	atcttctgan	aacctctgca	180
gcatttcctt	tgtgtagcct	cctttgggtc	ttagcaacaa	cgttgtanca	attagttgtt	240
tgaatgtgta	ctcagcttaa	gttctcgact	gcagggtgaag	caatttgcca	gtctaaaacc	300
aggtggggan	acattgcttg	ggaatcanat	cgacctggtt	ccaatccan	agctaccacc	360
tattacttgt	ggcctcaggt	aattatctct	ctgtaaagct	ccatttcctc	atatgtcaaa	420
tgaaagttaa	taatantgcc	tgctccacag	ggttggttgt	gaaaaataaa	tgaaatcatn	480
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<210> 9389

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9389

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gtgctaaatg	aggaaacgaa	ggcaccacaaa	ggtgaaggct	cacctaaagc	cacacagctg	120
gaagtggcag	aagcanaatg	ggaacccggg	cagcctgggt	cctggccctg	ccattcaccc	180
ccctgccatc	taaaaaatgc	tactgggtgg	ccaccggant	ccactggggg	gtgatgcctg	240
ctgctgaggg	ttcacatctg	tgctctcttg	aggcttcctt	tggtacttgg	aaggcaccct	300

gccctgnang	taagtntctg	ggaaagttat	tcactcctct	ctggccccct	catccannaa	360
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gggccacctn	aagctggact	tcctctnaan	ccacttcctt	gccactgct	ccctccccctc	480
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<210> 9390

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9390

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aacatttcac	agaaaaatac	gangctgctc	cttttcaggc	ccctgctggg	tggcggcctc	180
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anctgaacgg	ctctgatgac	ttgcttccctg	cccggcctcc	agtcaccgcg	agtggatgcc	360
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ttgacatcat	ggccttggat	aaagtcccca	aaaagcccca	ttaantttcn	gggcnggaag	480
gcaaaactaa	attcccaatc	cttggggaacc	tgctctttta	ccactggctc	tgaaccacaca	540
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<210> 9391

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9391

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gaaaatgaaa	tgattgaaag	tccttatgaa	tctcatacat	acaatatgtg	gctagctgaa	180
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gctaccanac	gaccatttag	ctggagaata	tacggaaggn	tttcagacaa	cgcacaggta	300
tagtgctgct	cacagtgcag	gatggtagan	gactgaaaca	tgcaacctta	caccttactt	360
ggtaaagcag	atttagtctt	catgcctgga	ctgaactcca	cagctgctgt	gtttcaccaa	420
cagtaattta	aacttttggg	acaacaacca	atgtcttttc	tccttaanaa	aaaaagaata	480
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<210> 9392

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9392

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ctggaaccgc	aggtatgtnc	aggtatgtac	cgccacattt	ggtcattaaa	aaaaaattgt	180

agagatgggg	gtctcactat	gttgcccagg	ttggctttga	actctcagct	tcaagcgacc	240
cttagcctga	gcctcccaaa	gtgcgangat	tacagtcgtg	agcccccattg	cctggctgcc	300
atttagtttc	tgatgatcat	tttcctgcct	ttttttttgg	gtgcaaaaaa	aatggtttta	360
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tcaaancagt	ggaacatcca	tctctcccaa	gaatggtcng	tancacctga	aacncatgca	480
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<210> 9393

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9393

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cttctctgac	acaagtggna	canatccagg	cttgctgtgt	ttaatacnat	tcacttcctt	180
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cttccacttt	tgtctacngg	aaaaaatcna	ataaaatttt	cgaacttgc	cnaaacaac	540
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<210> 9394

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9394

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gggtttactg	taattcaatc	ttttacaaaa	aattacttgc	aagttattga	taacanaatt	180
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aatcttttcc	tgtctgctgc	accaacaaat	tttcttggtc	aggttgccnc	cccaaaccga	540
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<210> 9395

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9395

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<210> 9396

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9396

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aaagttggan	gatttggggg	gagagtttct	tctttggcaa	gggagaaggt	ggcacaaga	180
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ggtcaaaggt	caggaactan	aatgctggcc	anggtcanaa	gtcangangt	ccgangctgc	360
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<210> 9397

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9397

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ctaattgtcc	aaagatacac	aatactgaat	ctgcatacgc	agtttccttt	atgaagtaca	180
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ttacaacatc	aatcattttc	tgcaatgacc	attatatatt	ccattttatn	tgaactactc	420
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<210> 9398

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9398

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ctctcatccg	gcatttgtct	gttgccatca	tcactaactc	tagtggagga	atctttacaa	180
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<210> 9399

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9399

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aggttatcct	agcctgatat	anaacacttg	gtgacacatg	cagttactgt	aatatactat	180
aacagacaca	gccattatag	aatgatttac	acttgggatg	aaattcaaca	gtagtaaggg	240
tgactcttta	tttaaaactaa	aaacattggg	aatatacaaa	tttttttttt	atttcattga	300
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<210> 9400

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9400

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agaaaccatt	gacatagttg	aatgcactc	atataaatta	acaactttta	ttacattagc	300
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aaaacaaagt	naaaaaccac	aaaatagaaa	caaacaaaca	acnacatcac	cacagaacat	420
aaaaatttta	aaataaaaaca	ggctccaaat	aacctnggct	tccanaatta	tnttttcctt	480
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<210> 9401

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9401

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tgtatgtttt	taataaatta	tgtacttatt	agtacttaat	gagcccttcc	tgccotcaata	180
taaaattact	aaacttggag	aattacagat	tttattgtag	gccctgatgt	tagtcacttt	240
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gctagccctg	cccggccctg	ccccaaaatn	ncgaattatt	aatctgatcc	gaaataagcc	540
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<210> 9402

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9402

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cttcaagggt	ctccagggtc	cactgtagtc	tggttcctga	cnacttctcc	aggttttcca	180
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tgaaanggaa	tctcactccg	tatccaaact	ggaatacatg	gngcaatctc	tgctcatggc	540
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<210> 9403

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9403

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tcgaacctgt	gggggaaaat	catcatcatc	catgtggcct	gggtccatc	ctaacaatcc	180
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ccccatgttt	ccaattcncc	ncctgncaac	tttgattacc	tcctccnccn	atcttcnaaa	480
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<210> 9404

<211> 364

<212> DNA

<213> Homo sapiens

<400> 9404

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canaaagtga	agtaaacttc	atttccagct	ccccattct	atcaactgtg	agaagctaata	180
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<210> 9405

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9405

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ancataaant	tnttttcctt	gaaaacagtc	tntcntancc	cacagtgcct	ccatgctcca	360
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<210> 9406

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9406

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gaaagatgcc	tttctaggaa	gcanagctcc	ctgactgggc	taagatagtt	canattgatc	180
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gagaacgaac	cctggcgcac	acctgtntc	catggaaaac	catcacacaa	acacactgcc	360
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<210> 9407

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9407

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<210> 9408

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9408

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<210> 9409

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9409

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<210> 9410

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9410

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tggcccaccc	ancgaggaca	aaggggcctc	angtctccaa	acttaactca	tgtnagaaca	300
actgcccacc	attgtccctg	ccatgccaac	ttatatango	atgaccctgg	cccancaatg	360
aagcaggctg	aagggcatgg	cgggctcaag	ccnnaaaact	gaagggtggca	agtgcggaat	420
aacnctggcg	ggcatgcttc	tcacaataca	actcgtcacc	acaaaaaatt	gccncccatc	480
tccagttcan	ccacaatcng	cacagttttt	caaccggggt	ggcgtaccgg	ccncctgnat	540
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<210> 9411

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9411

aacttaaaaa	gttattttatt	aaacaagtta	aacacaacta	aaagtatatatt	tagagggtcca	60
agattcaagt	atTTTTgtca	aacttttctaa	tgataagggg	aatgataaaaa	attgaacaga	120
tataaaaaat	attctttaaac	aatattttaaa	gcacatggaa	aattcagaaa	taaaaacaca	180
ccaccatata	aagaaatcaa	aatattttcat	atgttttttaa	atgcttatgg	tatgagagcc	240
aaattgtcta	tttccagggt	aataaacaat	atataagctc	accttttttaa	aggatatcata	300
ctttgtgtca	tatagaaata	atTTTTgaaa	cagtatgtgt	tgggtgtgta	aattgtccac	360
attaagcnaa	acatattttta	catatgaata	ttttcantta	tacttactgg	aaaacaaaacc	420
aaaaaacttn	taattttaaca	tcctgaattg	aaaataattt	ggattgaaaa	tccgccaaan	480
tccacatctt	accnccnaat	ttttttcaaa	aanattntcc	aanttttttaa	aaaaaattgc	540
tcccccatcc	cnt					553

<210> 9412

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9412

aaaagtttca	aacaagtttt	attttaaagt	gtaatgactt	acattttattt	ttcattttata	60
tagctttgtt	aatttagagt	aacacatttt	aaaattttcta	gttttttantt	cctctgggtg	120
aanatgggaa	gcgttgactg	aaacaagaaa	ttaagtcttt	tcggacaact	tgaattttcca	180
acttgggcat	aattatttaa	atgcttagta	nataacttca	ggattgtggc	tgtggccatt	240
accaaatttg	aaagaaaaaa	gtgacttgaa	atgaaagtgc	attgcagttc	cngtaacaaa	300
tagatgataa	actttattta	agtttaattt	atcagaaaact	tacagaaaag	ctggagttac	360
tataaaaaata	ttttttttcc	tgaatcaata	ngttactgct	tcactccttg	angtatattt	420
ctnacaaccc	anaatatttt	ctacatanat	acaccagccc	tcnnaagttg	aagaaaatta	480
acaagg						486

<210> 9413

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9413

aggatcaaaa	atttattaaa	aaccaattat	atcaacaggc	atcaagtcta	canattcagg	60
ttacaccana	ccatgaagta	aattctgtcc	ccatccacac	catacttgcc	aggtcttcta	120
gactcctgag	ccatctccct	atatcctcat	ccaaattccc	aaattacagg	cttaggtttt	180
tggtttggtt	ttcaatccaa	tggagggtgg	ggcagctatg	tnttgatttt	tggcaccacc	240
ctgtggtcat	acctaaatat	tgcaccttct	actcaatccc	acaaaggga	agaaacatgt	300
ttntntangg	cccancnnc	ttcaaatctc	agctctactt	cccagtaaaa	ctgtgggcaa	360
gccattaac	tggaggggcc	gtgaattata	accatgttaa	aaatgtnttt	tcccanaacc	420
caaaaatggg	aatgactttt	taaaaataaa	aaccttnaaa	aaagtcnttt	ttccccctta	480
atattgttgt	cntacctttt	nccatnaaaa	ttngggaacc	cccccaaatt	tcttaaaagg	540
tggcaaagga	acctccaacc	nttccaaaga	aaccactcca	attccctt		588

<210> 9414

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9414

gagatggagt	ttgactcttg	ttgcccgaagc	tggantgcaa	tgggtgtgatc	tcagctcact	60
gcaacctcca	cctctaccac	ctgcctcagc	ctcccaagta	gctgggatta	cagggtactcg	120
ccaccacgcc	tggataatth	ttgtattttt	agtaaanatg	gggttttact	atgtttggcca	180
ggctgggtctt	gaactcctga	cctcagggtga	tccacctgcc	ttggcctccc	aaagtgtctgg	240
gacagtgtga	gccactgtct	ctggccaaact	ttttaaagtc	ttctgtaagt	ttctgattat	300
actttagaag	ctttacagtt	ttgcctttca	cattttaaatc	ttcaatccac	ttggaactga	360
atthttattta	atacttacca	tatggatacc	caattgtctc	aaacatcatt	tattgaaaaa	420
tctccatctt	ttacaccgat	ccacatatgt	tttgttccaa	aaatggntaa	gttcatgttc	480
tggccttccc	ctaanttccc	tcccatccna	aaattanaac	ccccttccct	taaaaaacia	540
tnnagttc						549

<210> 9415

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9415

ccggtagaaa	gggtttattt	atgcgcaacg	gttcacacaa	gccttcctga	aattccactt	60
tacagtaaat	aaagctgtgc	gtttccctt	cccattgcaca	actgcgtatc	aatctacaac	120
tgtcatttaa	ctgtgaaaaa	atagancgtc	tccccttttg	tcacgtttct	ggtaacattt	180
ggagtagcat	ctgacagaac	ggagctgtct	actcctggac	cggttatttg	gttaaaaccc	240
aaaatgttag	gtcgaaanaa	tcaatcgtca	cccaatacaa	ataaatattg	cgttatgaaa	300
nanacgggca	gantcccacg	gtatcccttt	ttaaagcggc	atttccagca	cagcagcgtg	360
gcgctcacag	anaccancan	ggcgcagctc	tgggatgcca	catgggacac	ggctgcaagt	420
anccgtangc	accgtcccg	cgcgaagcnc	ctccaccnaa	cctt		464

<210> 9416

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9416

gagcatttgc	aaaatgttct	ctattttatat	ttttaaaaaat	ctgatacatg	taagtttttc	60
tggcanattc	tttttgtatg	ttacaaaaca	aaacatcaaa	agctcagagt	aagataagaa	120
tccctttttc	ttanaaagg	caagcanata	cttcttgaca	tcatgtcctt	tatacaatgg	180
catattgttc	atataaaaagg	tctcttatcc	tataaaaaatc	ttgacaaaagg	cagccctcta	240
atccaatgcg	tccagtttcc	gttctgcgga	ctgctacttg	attgttgcaa	acaagtacac	300
ctcctacaaa	ttcagcttga	atccccctccc	gtaaganaac	ttgcttgaag	tctgacagcc	360
ttggttcatt	cataaaaaact	gactgatgtc	caggaactca	tgangtggca	aggggtccaaa	420
gtangaatga	tctcactttc	tccacctgtt	tccttttcnt	ncacctccaa	anaaactttc	480
catggccttt	ggttgttgct	ataacnctaa	aatctgangg	aacttcccct	tgggtcccn	540

<210> 9417

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9417

gcctcagaag	tttatcaata	acctcttata	tacacatatg	ttttcncaaa	agtggttgan	60
aatcatttta	taccatcctt	taaaagaagt	ccaatggntg	anaactctat	aatgagacac	120
agtgggacag	aaattatcat	gactttcaat	gatcttttct	ttcccctaac	tttaatatcc	180
tttagttggg	gagagaaaaga	agtccatttt	catctgctgt	atctaagatt	ttacagatca	240
ctggagattc	aaccccnaga	atataattgac	aggagtggagg	ctctagcata	tatacagtaa	300
cagcatgagg	tgaatctgat	tctttgcaact	ttagtttttac	agtcacctgt	cttggtttgt	360
cagttatatc	acaaatatct	ccatttccat	aaaaatgtga	caccatcctg	actgtctggg	420
taccatcgtc	ttgaanatga	taagctctag	cagtattctc	cttaacccat	tccatatgct	480
cttcttggtt	ccctgtcccg	acaaccacag	aaggtttccc	ncatccctg	tccnctnggt	540
attgangttc	atntttgccc	nacnaaattc	cttttcccc	caccgac		587

<210> 9418

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9418

aagaactcgg	gttttatata	atagaatgtt	ttctagcaga	tgctctttgt	tttaatatat	60
taaaattttg	caaagccctt	tgantactg	ccttagtcta	cccactgtcc	ttttgttatg	120
aggtaaanga	tctcatgaca	ccatacacac	aaacccatca	ttgcctgtga	atgcacgtng	180
ggncagaatt	ccccagttcc	cgctcctctg	anggttgata	ctgctgggaa	tgccaaccac	240
tccacaagca	gaggaagcc	ccctcaggcc	tgcagganga	nccgcancag	tgtgtccaat	300
tcaaaccagc	agcaaagaac	ctgacatttt	cccattccatc	tatgangaaa	gccatctcac	360
anaacatgga	catnngcaac	ttgctctccc	ncaccaagg	atgggaatct	ctcctaccta	420
tantcttccc	tgc					433

<210> 9419

<211> 591

<212> DNA

<213> Homo sapiens



<400> 9419

gtttttcttt	tnatttttat	tttaaattct	ggggtacatg	tgcaggcttg	ttacatgaat	60
atattgtgtg	ctgctgaagt	ttggacttct	aacgaacca	tcacccaaat	agggaacata	120
gtattcaata	ggtagctttt	taaccctgc	ccctcttcct	ccttgcccc	cttttggant	180
cctcagtgtt	tatttctcca	gtctttatgt	ccaagtgcac	acttatttta	aacctagttt	240
ccanaccttg	tggttgtccc	atcanatggg	tatgaangta	ccatggaacc	cataaggcat	300
ctgcacaggt	ncctctgctc	ggcccagctc	ttcaaanttc	ttggcatcca	aaactaagan	360
aaaattgctt	tcattctggt	tgggagtgat	caccacacaa	aagaataacc	caccatcttc	420
ttcattgggt	cctgggtgct	ggaacaaaa	cangttctga	agganaaaac	cacttctctc	480
caaaccacat	caancttgat	naaaaaatcc	cccctaaatg	cccaaaaccc	cancctaaa	540
aaaaataaac	nttttgnccc	tgaatccatc	ctntnaattg	aagaaatcca	t	591

<210> 9420

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9420

gagatggagt	ctcgtctgt	ctcgcaggct	ggagtgcagt	ggcgcgatct	cagctcattg	60
caacctccac	gtgccaggtt	cagtgattct	cctctttatt	ttcttgaagg	tgccaagctc	120
gctcctgtct	cgggcatttt	gttcgtgctg	ttctctcatt	ccanaacctc	cttcccttgc	180
tcctcttaca	gccggtctct	catcttccca	ctttcaacgg	aggtagcaca	tcctcgcaag	240
agtttcctcc	gatgccccag	gccaagggtat	tctccatcac	ctcatcctgc	tcttggcctg	300
ggtcaccgtt	ggtcataaaa	attatgcaaa	aatgttcatt	tgttcatgaa	ctgcgtnttt	360
cttaantcct	ttgtggggan	aatccagggt	naatcnctcc	ccaccatgtt	ggaacanaat	420
taaataaaaa	aatattcnct	ggaa				444

<210> 9421

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9421

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnn					433

<210> 9422

<211> 459

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9422

ccatttttct	ttgcttattt	tcttcatgtt	tatctgagta	catggaccag	aacattcact	60
gtattatcat	gaataattca	gcatcttaca	agtcactctc	caagcaggac	anattaaggc	120
agcccggtgt	ggacataatc	acatctatgg	ctacaaggaa	cacgcaacag	aaaatcagat	180
tccaaccaag	caaaaggcng	cttggttttt	tttttctttg	aaacacagtc	tcgctctgtc	240
acccangctg	gagtgtggta	cgcgatttca	gctcactgca	acctccgcct	cccangttca	300
antgattctc	cccctcacct	cccaaatact	gggaacacag	gtgcnacca	ccacacctgg	360
ctaatttttt	gtntttttan	taaaaanagg	gtttccctt	gttggccaag	ctggtctcca	420
aatattgaac	cccnggntat	ntgccccct	nggcccccc			459

<210> 9423

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9423

ccgtctaaca	ttccctttat	tgcttacgtc	catattccaa	tgaatacaat	aaactccttt	60
ttaaaaaagt	aagggnatg	aaaagccntt	tgtgttagtt	ccatgttatt	ttaaaattcc	120
tattgggnta	ataaaagcat	ttgcactata	gaaccagaga	catctagaaa	agcacatgat	180
agattttttt	gcaagcagaa	tgccatgaaac	attacattta	cctcatggca	caatgagaca	240
gtcaccaaat	ccaatgtctg	cattagaacg	atacagctac	tattacagtt	gcaaaaccat	300
taatcagctt	atccacatat	gtacagctgg	gtccccacgt	gacaaaatct	aaaggaagaa	360
cagcatctaa	ctgcacctgt	gtccatttcc	ctcacagata	agaactgtga	catttttggt	420
ctttccatgt	tgtgtgtgtc	ttcccaaaaa	gccagggtcn	tncaatactg	aaaaacatgg	480
acaggtctgt	tcnttcaaaa	cctgaatccn	nccgcccgat	ccgtgtctaa	cgttcgaaaa	540
tttntccac	cnctgcccg	angaaacccc	cctgaataaa	ttctccaaag	ggaactgcc	599

<210> 9424

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9424

gtagagacag	agtctatgtt	gaccaggctg	gtctanaact	cctgggcctc	aagcaatcct	60
cctgccttgg	tctccaaatg	gagagtatat	tattaaaccc	naaagagtga	aatggagagt	120
caggntaaac	acagtgtaat	tacaagccac	actactatac	cacaggcatc	attactctgc	180
ttttcctaag	ccctactttc	gtaaaattgt	gtatactaaa	tatctttgtt	tatctgacaa	240
agaacaggaa	gaaagaattc	atacattggc	actaccatta	attgcctaca	gtttctttca	300
ctattttacc	taccagatat	taggatgtat	gacacaaatg	taggatgtct	aacagaanaa	360
caatgcaata	ttgcaacata	cagttaagta	ctcactcnac	gttatcaata	agttcttgga	420
aattgcactt	taagcccaag	atngataacg	aaaccntttt	tacnnnggc	tanttgataa	480
aacaagaatt	taatt					495

<210> 9425

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9425

aatggctaga	actgtcttaa	tttctggaat	aagttttttg	tagtaaccaa	aagtggcggc	60
aaagttacat	cggaacaagg	gattcttaaa	ggactgcact	gcanangaaa	gtacagangt	120
taggagtgtt	ttacactgta	tgactggaga	cccagtaagg	aaaaaataaa	accatttcac	180
gtttataccc	agatttaaga	ttcctcagta	aaccagttgt	actacttttc	cattcttata	240
tctcaacaca	ttcctgaaat	cctggcactc	catcatactt	tactagccca	accagtctaa	300
ctcaaagatt	cccccaactt	gcgtattaac	atttcaatgg	ctttgttctc	aactanaatg	360
ttcttccctt	angtctatct	gaagtctatg	tttaaaggaa	caatttctaat	gtccatcttc	420
ctccaaatth	tctctcatca	caagtacaaa	aatagtctct	cagggtaaat	ttaaaaacct	480
gcatttacct	cntcaagcac	ataaaacctt	cttgtgacct	tttgaanaag	cgcatttanc	540
ctttaaatga	tcttgtcttg	cccaaaaagn	accccccta	a		581

<210> 9426

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9426

gaaatggaat	ctggntctgt	ctcttgcctc	gtctcccang	ctggantaca	ntggcgcgaa	60
ctgggntcac	tgcaagctcc	ncctcccggg	gtcatgccat	tctcctgcct	caacctcccn	120
aataactggg	aatacagggt	cctgccacca	tgccctgggt	aatttcttgt	atttttttag	180
taaanactgg	gtttcaccgt	gttagccagg	atgctctcga	tctcctgacc	togtgateca	240
cctgcctcag	cctcccaaaa	tgctgggatt	acaggcatga	gccactgcac	ctggcccaact	300
ccactttttc	ttaatgggga	cacttcctct	gaacaacang	gacaaatntg	ggaatggcac	360
aananaatcc	ccatactcct	attagttctt	atttgaatgg	gccttggtgaa	atggaaaaat	420
aatgggctct	gttactaanc	actgtntnac	tttgacaag	tccttaacct	ctctaagccc	480
gttttcnccn	ctgttaaattg	gantcatccc	tgtncccctc	tcataaccct		530

<210> 9427

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9427

gaaaaaataa	aatttactgt	ttatttcttt	gttacacaaa	gggggtccaa	nanatcttan	60
tccatctcct	atgtcctttt	ggncataatt	acancacaat	aatggcaagc	tagattanga	120
ntctagctca	gggtcaagtt	tttccacttt	aatgactatc	tctgggagct	aaagcggcag	180
caccagcttg	ttggttctct	gcctctgact	ccgacaacac	ttcttccctt	tattttttaca	240
ggcttattac	tggcctcctc	ctcttcatct	gaanactcat	cgagctccca	ttcatcatct	300
atgtccattt	caaatactct	cacatgacga	anatttgagc	ttaactaaaa	aagaaaagcc	360
ataaaagcat	ttttaaatta	atggcttata	ntatatnaag	aattanaaat	cagaagtctg	420
aatcnaagaa	tggtttttata	ggaaaagttat	attcccntcn	atttacaaca	aaatcnataa	480
attccccctt	cnttttgttt	taaaaaatc	cccnttacca	cngttggcat	ttcctganaa	540
ttaaate						547

<210> 9428

<211> 416

<212> DNA

009240'69462960

<213> Homo sapiens

<400> 9428

acaattgtaa	aaaaatTTTT	tataacaagg	atggactgat	tttcatatTT	ccaaatcana	60
ntcaactgta	catttacaca	naattgtcTT	tgcatgaagc	ccaagangga	acagcataaa	120
aatgagtgtt	tctgtagccc	ctttatTTTT	gctgatcaac	agtttgTTan	aaaancagct	180
gcaggtatgt	tacctaaggt	ctganacagt	anaanaatca	gangtgtcat	gaattcncct	240
gtaaacaacc	ttatgcctga	acatcagcta	attctggagg	aantggagtc	ttaggatgct	300
tgctctcaaa	ntgctgcttg	aaagtcttaa	ggctctggcat	ttgtgtccta	canacagtgc	360
aggtatatat	taaggcagct	ttggcagcac	cnntnggtca	ngtcctngtt	tcccn	416

<210> 9429

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9429

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acccctatTT	tcaggggctt	atgancaggc	agttgaaaan	aacttaacca	gcaaaaaactt	120
ggcattcatg	atcttggTtc	agtataaggt	acttgctTTa	acaaatTTTa	agtagtcagg	180
tctTTTTTaa	agttgtaagg	agcacaaaaga	ggaataaagg	aatttctTTg	gttaaacaga	240
tagggaatat	ttttccagcc	aacttatccc	aattggattt	atatagcaaa	ctttcttctt	300
ccagaaatTT	tttaagtatg	tncattccta	tgttccagtt	gccacaanat	cttgccTcaa	360
gattttcctt	ttcctttTgt	gtagtTTata	ncaaataccc	tctgcctctg	ctctttttct	420
tcctatTTat	gctTTTTTaa	ttcttontaa	tgtaatatat	ttacactaaa	aatgggtgtt	480
ngntttcctt	tggctTTTTt	ccccnccta	cagtaccatt	tgaaatTTac	ctattggTga	540
aaaacatatt	actttgaaaa	anntTTTTaa	ttaccttgat	tgcttna		587

<210> 9430

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9430

gtctagaaac	aaagaacagg	ctttatTTTT	gttatTTtga	atacaggtat	tgtattgtag	60
acatctgtta	gtctcataat	tcagtatggc	caacacacag	aaattaaaag	tnnaaacaaa	120
atgagggcnc	acttgctcct	gtccttggct	tggcccctcc	aacctccaaa	anaactgtcc	180
tccccattgt	catatccttt	ccctgctacg	aaagacaaaa	caaaatgatg	cccccaagaa	240
aagtcccaga	ggctctctcc	cagcagtcag	tgggatgaag	caagacactg	ttaccttggg	300
tnngatggag	aaaccaccag	gtcctncca	canaagccac	agtgggatgg	anaaccctg	360
gtccatacca	ccgaaggcac	ntnt				384

<210> 9431

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9431

atgttcaaaa	tagtttttaa	tcataagctt	tatatacaaa	ttgctgtaca	gtcatcttaa	60
taaagtgaag	tagtgagtga	aaagtacaaa	acacaaagcc	cccacgttcc	ccttggtgaa	120
gtatcaaagg	atcactcaca	gcccagaagc	cccaaattag	tgacaaggta	agtggaacaag	180
tctgtgaaac	aggctaaggc	aagtgtctga	aactggctat	taaaggcgaa	caggctccac	240
tgacagaccan	aagcctgagt	tcctactgcc	caaactgggt	ctgtggaaga	attaaatgaa	300
atgaatattg	atggggccaga	accttctagt	agacctgcga	actcataaaa	atggatatata	360
ttatgctaaa	aatagtttag	cagtagtgta	nctcagtctc	tccncccccc	nattaagttt	420
tgacaatacn	ccaattccta	aacatnaanc	tgttttaaac	nttaattaac		470

<210> 9432

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9432

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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<210> 9433

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9433

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ttacatgggt	atattgtgtg	atactgaggt	ttgtggtatg	aatgatccca	tcacccaggt	120
tgtgagcata	gtacccaata	catagtcttt	cagcccttgc	cctccccgct	cccctcgctc	180
ccccgcgcgc	agtcctcagt	gtctatcggt	cccatcttta	tgtccttgtg	taccacacagc	240
accattcttt	ttgaagcctg	atttacttta	tatcaattga	acttcagcag	ccacactgca	300
gcctatggct	gtgtggtatg	aggggaaaat	cacactgatt	gattacatgc	gattccagtt	360
ctggtacctt	ccttttgcac	ctcaaaaagt	tataagaaga	atcaaaactg	tgggantctg	420
ccaacatatg	ctggtattca	tgtctaattc	nggttagatc	aactactact	gtctcccttt	480
attccgcttt	ataaattacc	gcatccggtc	tgaaccaaat	ctaattgttt	cacccttata	540
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<210> 9434

<211> 438

<212> DNA

<213> Homo sapiens

<400> 9434

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gatctttag	gatgatgtat	tttcccttcg	tgagaacaac	catagatttg	cttaagcact	180
gagtgccttg	tggactttgt	gcctgagggt	cccttggtatg	gactcttggg	ggccttgctt	240
actgcagtgg	tttgggggaa	ttttagttcc	agttcccttc	tccaaacctg	gaggagcaat	300
gctgtaaaact	cttgccctcca	tctgtccaca	tctccagctc	caagctgctt	catatgccna	360
aggtggggaca	ggtgcttcct	ganctgggtan	cttccccagg	cncnctggga	atnactgctg	420
ctgccttggt	cctttngg					438

<210> 9435

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9435

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aactatccca	aaataaaccc	aaaggctttt	gctttcacgg	ttaaaaaana	tttatacgtt	180
ttcttcaaat	gtcaaaaatg	aaanggtccc	tcnggacagc	aatatcccc	ctagttcaac	240
accacacctt	gggaagggaa	aaaaagggtg	ggganangca	actacaactg	acccaaatcc	300
ccanncccta	ngtggccttg	tatantaaaa	atctcnattc	aaatacaaca		350

<210> 9436

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9436

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cacagccctc	catatttatt	aggcaaaaana	aatantgaga	aggggtgttg	aaaaaaaaagt	120
cagctgctcg	gtccanaata	ngcttgcaan	actgcattcc	tcnaacaata	ggctctaaat	180
gtcccagtaa	ataacctcaa	nganccgggg	ccagggaacg	atggccctca	ncaaaccttc	240
tgggcaggca	cagaancgag	tttgcccaca	ttctgtattc	atgataaaca	gtttgctgtt	300
tgatcatgta	ncctccactg	gaatgctgan	ttggtcacca	tccctttggc	ctttttggct	360
cccaacattt	cccccttctt	gtttatgtat	taaatnaaaa	aatntnaggc	caagctgggt	420
nctttcattc	tcccattggc	agtccatccg	attttnccna	ctatgaacgn	aaaaacgaaa	480
actaa						485

<210> 9437

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9437

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnn	597

<210> 9438  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 9438						
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ggcttatact	tcatataaat	gaaaaaatatc	agttctacaa	tttaaagtgt	tactttggat	180
tttattatag	aagaaaatat	cattgtaatt	ataaaagcca	taaaaattgg	aactgtattg	240
tgaaattaca	tcaaggtatc	agattttata	taaatgaaca	ataaaattca	attttttattt	300
atttaaacgt	anttaaacat	tggaagacaa	tctcccccac	ggggaagaaa	aaaaaaaaaaa	360
accttgaata	atnaagcccn	aaagcccna	cncnaaaact	aatcngtgtg	cnaaaatctg	420
attaaaaaaa	c					431

<210> 9439  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 9439						
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aattaaacac	tgagcaagcc	acatgtttta	gtaatatattc	ttaaaaagtc	ttaaagaaaa	120
aagtatgata	caggacctaa	gttttcagtg	gcatatatac	tattaacaca	tttctgaaat	180
ctggtaggtc	acatcagtc	tgaattaaact	tttaataata	ataataataa	aaaaactaac	240
tgagctttat	actttttcta	tgccactata	gctttctttc	acctcatttt	ttaaatgtcg	300
atcttcactt	tatgccgttc	tcagtattct	tccaaaaatc	ttcgaacagt	agtcctctgt	360
ctgatctgag	gtcttatcag	atcagtttta	attggactga	gtgtcccttc	agatttaaatg	420
tctcactggg	cccattgaac	tcattcttag	tatcactttc	cttcnattca	atgtttgtgt	480
ctccctctgc	tttcccgact	accggactca	cctacttttt	tatcacaaat	ccncttttcc	540
tcccccgna	ttccacctgg	tcccgtcna	nttgcccgt	gctaaa		586

<210> 9440  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 9440						
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cttccattta	atcaaactcag	ctactgaagc	ttgtgcatgc	atcacgtant	tcttgtgccca	120

00822.0.69462960

tggttttcag	ctccatcagg	tcatttatgg	acttatctat	gctgtttatt	ctcgtttagcc	180
atttgtctac	tcttttctaa	aggtttttaa	gcttctttgt	gatgggttca	aacatcctcc	240
tttagctggg	anaantttgt	tattaccgat	tgtctgaagc	cgccttctct	cgactcgtca	300
aagtcattct	ccatacagct	ttgttccgct	gctggcaang	aactcatgtt	gctgcctaata	360
ccttcctctg	gaancttcat	ctcanaaggg	nacccnccct	attaaatttc	natncccccc	420
cct						423

<210> 9441

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9441

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ttatttattt	tttgagacag	agtttcgctc	ttgttgccca	ggctggactg	caataacacg	120
atctcggctc	actgcaacct	ctgcctcctg	ggttcaagcg	antctcctgc	ctcagcctcc	180
cgttgggatt	acaggcaccc	accacctcac	ccagctaatt	ttttgtattt	ttagtataaaa	240
cagggtttca	ccacgttggc	caggctggtc	tcgaactcct	gacctcaggt	aatccaccca	300
tcttggcctc	ccaaagtgtc	gggattacag	gtgtgagcca	ccgcgcctgg	ccttcttcca	360
cattttgtgt	ctaantttta	cccccttctt	ttcccattat	taaataattg	gcagttttatc	420
taattggact	tgtccaataa	ttaactccta	anattacttt	aaaaaaaaat	ttgttttttt	480
gaaanaaaaa	nccctctgtt	tcccancctg	gattaaaatg	gggttgggtc	cactcantgc	540
accccccccn	ccngttcan	cccatcc				567

<210> 9442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9442

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ctgcaacact	cttgcccttc	aggttcaaga	natcttgtgc	ctcagcctcc	cgagcagctg	120
ggagtacaga	cccctgcccc	catacccgcc	taatttttgt	agcaaattac	tcatttgtct	180
gtctactttt	tattataaag	attgtggcaa	ctctgcttag	gactctggat	ttttctgccc	240
aattaaggta	aaaaaagaaa	aaaaaaagca	accaccacca	taatattacc	caggaaacca	300
gctgtgttct	gtanaaggcc	ggcctatcan	attcaagttg	caagccttat	acacagtaag	360
tgtctcatgc	acatatccat	gangattcac	ataagctgcc	atcggccccac	ataaggataa	420
actgaatatt	tcattttttg	ttgttatttc	tgtttcttga	aattgtttac	agccaaagga	480
aattaattta	tcntaatgtc	taattcccac	naaatccctg	anaccctgcc	attttaagga	540
antnaatcnc	catactccnc	attaggaaaa	aaa			573

<210> 9443

<211> 491

<212> DNA

<213> Homo sapiens

<400> 9443

gctggagcag	caattttcca	atttattgaa	agtgatcgct	ttgcaaggat	gtctaagcta	60
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atcccgtcac	agaaaggaaa	cgcacaggcg	cctaggcaga	aacttggana	ctcaccgcag	120
angccacgtg	aacccacggc	cacagaaaagg	caggacggca	gaaccatgat	ttcccaccga	180
gcgattacna	aaacctcttc	ccccaatagt	anacacatct	ccaatacaaaa	cacaggttta	240
taataagtna	taggaagtcn	atataatata	nattatcccc	agaaaaaaat	caacaatctt	300
caaacactgc	cctttntttg	tgtgttttgt	ttttgttgac	aggttgaaag	catgttgaaa	360
aaaataaata	tttaagaaaa	gcacacacag	caccctcact	acaagttant	tctaaaaggg	420
ctgcntacca	aacncnatat	tanatctaaa	aaaaaccccc	ccattaattt	ggctttccta	480
aaattcccn	t					491

<210> 9444

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9444

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tcatgttttt	aaaaatttgg	ggaaagatca	agagtacaga	anagcatggg	gcaaaaaana	120
agtttaggtg	catttaggtg	acatcaataa	agcccagttc	tttttttttt	ttgacaaatg	180
ggatcatcct	ataaacattg	ttaggcaaat	tacaaaatct	atctgcgctg	tccctagttg	240
ggcncaacat	gcncatggc	aatctgtctt	gctgctgtgc	agtccttccc	tgggtggctg	300
caggggcaaa	cacagggttt	gtnggtcctg	ggtcttataa	aaatcaggta	caaattgaca	360
cntntattta	aaagganaaa	ttgccaaatg	anacaaaatg	ttttccttat	gcaaatttca	420
taatataaat	tatanacact	gccagtgcac	tgttangacc	ccncgggctt	ggaagggctc	480
natattattg	ggtttacaat	aanattgggc	cnagttaatn	tccaaaaatt	actccccccn	540
ttc						543

<210> 9445

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9445

accttttcca	caacatttta	ttttaaataa	aacttcaagt	actcttacgt	agggtacaaaa	60
aaaatctgat	ctatttgcct	ccaacaggcc	accacaacac	acagtagata	aaacacagtg	120
gttacaaacg	tcttttaaat	ttattttctga	ggcaaggcaa	atgggaggga	aatgttttcta	180
tgaaaaaata	ctgtgtgctg	aggaaattgt	cacaatttta	ttccacatgg	atacaaatga	240
ttatacttta	atttaggccc	tgggtggctta	aaattatata	acaaaataga	aaaatggaaa	300
actaatatcc	cctacccttg	ttttnaaggc	angcnctacc	canantaang	anaaccccc	360
cTTTTTggtgta	aaaga					375

<210> 9446

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9446

gggtaccana	atggttccaa	ggttagtact	gcttgagctc	atttcagctt	ctgccatgca	60
tctttccata	tttactgagt	ttaaatgaat	catctcagag	agaaaagaaa	aactaaatat	120

agaaaagtgg	gagtactttc	acgtttaata	cgcaagggca	taaaatanaa	tgtaggaaa	180
caatttggat	ttttttccct	aaaatatagg	tgactatggg	ctantttaca	actttccctc	240
tctcactgaa	ataaaaaatac	atagttaagg	aatagggacn	aatacataac	aggtgacatt	300
tgacagtttg	ggcatattcc	ttgttacttt	ctaactctga	gaatcacagt	ttgctgtttt	360
agaagtatct	ganangttcc	agataaaaag	cgatggctaa	atgctcttaa	actttgagcg	420
tgctggatgc	tctaaagttg	gagaagaatt	tataacanaa	ccttacnatg	aanaaccnac	480
ntccnaaccc	nct					493

<210> 9447

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9447

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caacctctgc	ctccagttct	cctgcctcag	cctcccagat	agctgggatt	acaggcacac	120
gccaccacac	ctggctaatt	ttgtattttt	agtananca	gggtttcact	atattggcca	180
ggctagtctc	gaactcctga	cctcagggtga	tccaccacac	ttggcctcct	aaagtgctaa	240
nattacaggc	gttagccact	gcacccagcc	ttgtatactc	ttttgtcctc	atttcagtga	300
ananaattaa	tgtingagaa	aaatggggca	acgagagaga	gattactgaa	aacacttatt	360
gtgaggaatg	aanacctgac	tctcaattcc	actatganca	cnttacaggc	agctctggac	420
acctgaagct	aacagtccaa	tatttgaata	aggctgttac	actttcnctt	acnggttttg	480
gncnccccct	tnntta					496

<210> 9448

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9448

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aagctccgcc	tcccgggttc	acaccattct	cctgcctcag	cctcccagat	agctgggact	120
aaaggnaccc	gccaccacgc	tcagctaaat	ttttgtattt	ttagtaaana	cagggtttca	180
ccgtgttagc	caggatggtc	ttgatctcct	gatctcgtga	tccacctgcc	tcagcctccc	240
aaagtgcctg	gattacaggc	atganccact	gcacccaggc	gttgatgttg	tgtattatan	300
aatgattaaa	tcaagctact	taacatatcc	ataacctcac	ttacttatgt	tgtttacatg	360
tgctatgaaa	cattttaaata	ccactctcat	ancaattttg	aaatatacat	tacattatta	420
ttaactattg	tcccatgctg	tgcaatcgat	tttaaaaact	tattccccta	tttaacccaa	480
actttgttaa	tatttaaatga	gttcctccna	ataaccnnaa	cccgtttgaa	gcctatgacc	540
ccaattnaaa	ttcntttgaa	cncctccta	gggcgtttaa	ttnttg		586

<210> 9449

<211> 368

<212> DNA

<213> Homo sapiens

<400> 9449

ccatttagtg	acaggaattt	aagcaaggac	ctgaagtana	atcaactgat	tcacacagta	60
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gtaaatacaa	agtanaacaa	tgatcttggc	ttcgctgtct	ggttcagtgg	tctgctggaa	120
tgcaatacac	aagttaagtc	acactgcana	ctgttttcta	gctgtggccg	ctggatgcca	180
cttctagcat	agtaaaacta	tgtaggagg	aatgggaaaa	gtgagcacca	cttctcacca	240
tgttccccc	tcctgctgcc	agtctctgct	cccatgttgg	atgcagcaga	aatcnccnc	300
cacttggccc	aggacanacc	aatangaang	ggtccaatcc	tctactacgg	cgaaatcntc	360
tccncaac						368

<210> 9450

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9450

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	n				381

<210> 9451

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9451

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ttaaagtgca	tgtnaaattc	ttttccattt	tttggtaggt	aattaatttg	aanaaggga	120
atacaatgct	ttactattac	taccaacagg	attttacaca	agaaacatta	gtaacttaag	180
ctgtggatcc	tgtgaatgtn	caactgacac	agattttgta	aatccatact	gggcctggaa	240
cttatgttga	ttataaaaagt	caaagggtaa	ttttctttta	aagatatatt	acttataaaa	300
tattcccgaa	gtatgaattg	tgcttttagt	ttaggatata	tgattttaat	tgatgcacac	360
tgcatgatga	tgttttacccc	tgctgtngat	ttaaagaaca	gcatanatat	ctcaagaanc	420
ccnaataaaa	ttaatttttc	ccccccctgt	ntaactcctt	aaggatttca	tccccaaagc	480
tatccanaaa	accccctact	ttaaccaanc	cnttgttaaa	tttattaccg	gatacaaaat	540
ncnccaaccc	atttttgggt	naaattaaat	gaacttnccc	ctta		584

<210> 9452

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9452

gacaatggaa	atgtttattg	ctgggtggtg	ggtctgtcat	ttcctaaang	acatagctgg	60
ccagcagatt	ttcatttctt	ttttacaaaa	taaacaaatg	cctactttat	tatttataca	120
cagaaaatta	tatanaaaca	ccacacaaac	tgcttgaaat	acaaatattc	tttggtttac	180
ttatcaaagt	aaaaaataac	aaaaatctta	tcagttaa	aaaaaagtga	cattctttat	240

caagccttct	taaacactga	aacgcacgca	tttttatgct	catgtttcttt	agcagtattt	300
ctcccccttt	gccccctcatt	cccctaaatt	gtttcaatga	gttcatctgt	agaatgaana	360
ttgtttacct	tcttaatgct	acttactttt	tattatctca	atatcaagac	caatctagac	420
ttttttgtct	cttacatgtg	aaatggaagt	ttaaaaagga	aaaatcccn	cccccttttt	480
agaaaacctt	naaaaaaacc	ntnnncacct	tttcaggggg	tgaaaccctt	tn	532

<210> 9453

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9453

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accaactctt	ttggatggct	taagatgtgc	caggtactgt	gctaaggaca	agagatataa	120
ccagatacaa	accagtcccc	atcctcaatc	attacttatt	cactcaacaa	atatttttga	180
gtacttacc	tgaccaggc	actagggata	taacagataa	aaattaagtc	tctcgcttca	240
tgaagctttc	attctgatag	agggagacgg	caataagcaa	ataaatgggt	tattccacca	300
ccccctcaag	tcttcaactca	aatgttcctt	tttcaatgag	actatataac	caacgtattt	360
aaaatttcaa	ccaccatcct	gcattcaactg	ctttctntct	tgctaanggt	gattaatatg	420
tntttatttg	actgaacaca	angggccnna	tacttgggtcc	aacattatnc	tgggtgtgt	479

<210> 9454

<211> 467

<212> DNA

<213> Homo sapiens

<400> 9454

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tcttcacttc	atgtccacat	caaagtccag	caccagcagc	ttggtttctt	cagtcccatt	120
ccgactccca	actgcacaca	ccagctttgt	gtttgaggct	ctgatccgcc	acacaactcc	180
cccactcccc	ccactctcca	atgtgactag	gtttcgaata	aattcaccog	ttttcaagtc	240
ccatagtttt	acagttccat	catctgagct	ggtaattaca	aagttcttgt	tgaactgtaa	300
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tttgatatcc	cagattttta	ctgtanaatc	tgcattccca	caaacaaaaa	tattgtcttt	420
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<210> 9455

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9455

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gttgttctaa	tggtgcttcc	tctcctgcag	aacttgagca	atcagtccga	tgaccaggga	180
gatgaccccg	gcagagcagc	ttgccactta	ttagaactgg	gcttcatgag	aggctcttag	240
gacactggaa	atttcaagtt	aatatcctga	ataggctttc	ttcctgtgaa	aattttgcag	300
gcattgtcca	cgatggatgg	aggaaaagag	ggaaggcaag	agaccaagct	aggattgact	360

ccaatattct	ctgccaccct	gtcccaacac	caactcccat	aacctaaaaa	ggggtggagg	420
tgggaatcaa	atttgcnttt	ggtgatangt	gcaatttnct	ccnactaaat	cntccnanct	480
cct						483

<210> 9456  
 <211> 577  
 <212> DNA  
 <213> Homo sapiens

<400> 9456	
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aaanagatgt	cttctcacac
60	
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caanccttca	ttggtttaaa
120	
gcatatgaat	tagcttcttg
ctatcagggt	tacatcattt
ctgccatgtg	ggacattttc
180	
ttgggaatat	acaagtaata
ctccatgtag	cctgacaggt
cctcaatggg	cacatcatcc
240	
acnaaaactc	gagcttgctc
anaacaggat	cgggganagc
canacagagt	tctggcgtgc
300	
agcgactgaa	antagtcctc
aagtgtggat	cttcgttctg
gagccaaggg	agggacactc
360	
tgcaggcctg	aaaaggaata
tacttccata	tcatgccatc
tcttacctg	gcattccttg
420	
cctatgcatg	tgcatggcct
gccctggttt	aacttggaag
ctgattgaaa	attcnaaaaa
480	
aatcctgggc	tttgaaantt
gcttggggga	nttgggttac
ctcaaaagaa	tctccctcct
540	
acnncccgan	gggaacctgg
aanaaaattc	tcaaagn
577	

<210> 9457  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 9457	
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ctttttaatt	atgaatgcac
atatttttat	tcatgaacat
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cagaatcggt	aaaaatctac
agctcctcat	tcttactac
120	
tagtttctct	tctcagangt
aaacactttt	tcaaaaattc
gtatttttaa	tttgggggtg
180	
ggtaattcac	atgggtgcaa
catcaaaagc	tatgaaaagg
tgaagtttcc	ctcccatctc
240	
tcatgtctcc	aaagcaggaa
atcattgtga	ttaattttgt
ttgtttttcc	anaatgaaca
300	
caaagtttta	taatatattg
aaaggacact	gttcctcana
ntccaccctc	taagctaagc
360	
atttgtgata	taaagtcagt
anaaaatata	ttaacatttt
ccccctttct	agatgtattt
420	
ctagaaccan	aaaaaggaaa
ggcaccaggg	ggaattataa
tctcnttaaa	agtttgaacn
480	
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nnaaaaaatt	tattgctcca
ttgtnactgt	tnnaaaaaag
540	
gaaaagaat	
549	

<210> 9458  
 <211> 599  
 <212> DNA  
 <213> Homo sapiens

<400> 9458	
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agttcatttg	aagaatacag
attagcaatt	aaaaaataca
60	
gcagtatctc	aggaaataaa
cattattctc	attttacaag
aaagtgtatg	tgaactttta
120	
aaaaatctac	actacaatat
gaattgatat	tatctctggg
tagaatgcta	acaattttat
180	
tttctccttt	actgtattca
ctaaatgttt	cacattaaat
gttgtattac	ctttgaaatc
240	

003220" 69462960

agaanataca	ttgtctaaaa	ctgatacatc	aagaaatagt	tgtataagca	tattacctaa	300
acacagaggt	taccaacaga	aattaaaagt	ggttaaaaaat	gactcctggg	gaactgtaag	360
aagangaagg	tgaagggaan	aaatggttgc	tttccattct	aaatcttcnc	acaatctatt	420
cttaaaatca	gacaaaagntg	tggtaaaattt	tttccattat	taaaaaaaaat	tatttcctcc	480
tataagaata	ngcccttgaa	aaacccatta	attgttatag	gttcccatto	cctttntccc	540
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<210> 9459

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9459

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aaaatatatg	aaacaactgc	agatattgac	atgcaccta	agactatgac	ccctganagg	180
aatgaagtga	ggcccatcca	tcattctaga	tttctacctg	caggcacaga	cctcananca	240
gggtagggga	tcccaaaca	ancatggtgg	tttcatgttn	ttganaaaac	agaggctgga	300
gttcagggag	gctgaantgg	ctgaagttgc	agagcagagt	nccagagagc	ttacngatat	360
gtttaaacag	aattccagaa	atctgcntat	ggagccccnt	gagangtggc	tggatattaa	420
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<210> 9460

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9460

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aactgtggtg	tcaaaaatct	gatagcaaat	ttgattatct	gttccatttg	tgacattgta	120
tgacttgatg	aagcattcca	accacggata	tgcatcaatt	tttattcctg	gaggacaaaa	180
catatccatg	atcatatcca	cacttttctg	aaggatcatca	tccatcagaa	cttctgatgc	240
tggaatctgg	aanaatttgt	canaatccat	ganataggct	tctagtactc	ctgttccatc	300
atcaagtgtg	aaggatcata	caaacacata	ttggaggggt	ncaataccca	gtgcttctgc	360
cacagaaaga	angaatccac	gatgttttat	caaccagggg	aatttanatt	ttgtatggat	420
ctcaaaactan	aacactgttt	acatccctag	tgatgttttg	ttccctgtat	aaaaaatggt	480
gctgaaaagg	tccaaaattc	ccaggtcctc	cttggcccna	tntccccgga	atttcccttn	540
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<210> 9461

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9461

ctgatttcat	ctttttattaa	aaagctgana	nttaaagaac	tgtagggata	actaagtcca	60
cctcaaagtc	canacagaaa	ctgccctccc	aaagaaacaa	tgtttcttta	aaacaaatac	120
cacaccttcc	canatattat	gggtaggtaa	gtgactaggt	tttgcaaatt	aatctatagc	180

tgcccatgtg	catgtagtcc	aaaaaacatg	ccaagaagga	anagctctga	accagacaca	240
gaaaggcagt	gtggcttcct	cgctcaaggg	gaatgcaaag	ggctaananc	cctggcttca	300
agcagctgtt	atcctagatg	aggaaaatgc	aaacagattc	aatctctggg	atattgctgc	360
caacatgcta	agcccttcac	cagttgcctt	gattcgaagc	agttcctcta	tgtntactgg	420
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tgaangaatt	taactaatgg	tgtttgaact	ggaaaaggta	aggtctgaaa	atcccattna	540
actggaaacc	caaaaaaaaa	a				561

<210> 9462

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9462

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caagctccgc	ctcccgggtt	catgccattc	tcctgcctca	gcctcccagag	tagctggaac	120
tataggtgcc	cgccaccacg	cctgactaat	ttttgtatt	tttagtaaaa	acgggggttac	180
accgtgttag	ccaggatggt	ctcgatctcc	tgacatcgtg	ttccgcccac	ctcggcctcc	240
caaagtgctg	ggattacagg	cgtgagccac	cgcgcccagc	ctaattttgc	atttttagta	300
nanacgggat	ttctccatgt	tggtcaggct	ggtctggaac	tcccgaacctc	aggtgatcca	360
cctgcctcgg	cctcccaaag	tgctgggatt	acaggcgtga	gccatanccgc	ccancctatt	420
tcattcattc	taacacatct	aagctganct	ttgaagaaaa	aatnggtgac	agggaatcta	480
cagccaaaan	aantggttga	agaattgcc	cccaaactctg	ttactaaggg	gcccantnc	540
tcactcctnc	aaacttccc	gn				562

<210> 9463

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9463

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tctgcttttc	tgatcatcct	aaaggctgaa	tacatcctcc	tcctgtgtgg	angacacgaa	120
gcaatactaa	aatcaataca	ctcgatcagg	tcttcatcan	ataccacgtc	actgtgggta	180
nantgctagt	tttcaacaaa	tgtggtgttc	ttagggctcc	acaaggtant	cctttctcaa	240
ggtcgctggg	ccactcatgg	agttgaaatg	ccgctgcca	tctaagtaca	acatggactc	300
tccatatgtt	tttgggaaaa	ccaatggcac	ttctttttcc	gacatgaacg	tgaaatgaaa	360
gacattgggtg	gttgatgtct	gcttctcctg	cagggangcc	acttactgtg	gtactctgac	420
ttgaatataa	ttattctgaa	ataaagcata	cctgtgaana	aagaaagaac	nntgancccc	480
ctccacaggt	tccgaaacat	gatttctcta	ctgctancac	aaacggtcna	aaaaacncaa	540
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<210> 9464

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9464

09629469.072300

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acttttaaact	tatttttttag	acattcaata	agcccattct	cccacaaact	gtttgattac	120
aaagaagcac	aatgggttaa	ctgtggcaaa	acataagaaa	taaggcaggg	gaggcagata	180
cagacttgan	aacataagga	tatccaaaca	attttgtcaa	tatcaaaaaga	caaaatcaaa	240
acatctttta	taatataaaa	caaatccata	taattaaata	ctaattaggt	gaaanattat	300
agggtatata	acatatatatt	tctctacata	aatttgcata	tcttaaattt	aatgcaaaac	360
atcatgtttc	acttcaactt	aacatcntaa	catgttantt	cttggtgant	ctanatntta	420
tggaatgaat	attttaaatta	aactncaaaa	atcctancca			460

<210> 9465

<211> 349

<212> DNA

<213> Homo sapiens

<400> 9465

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ataatcgaat	cacaaaagaa	accattgagg	gcatttgctt	tgctgaactg	atgagatgaa	120
tgattaattg	tctggaattc	nncttcctgg	agaggcaaat	ggaggtnntag	gaaggccnaa	180
aattaaaatt	aaaattaaaa	acccnaggaa	agagaagaga	anaaaaggaa	agtttaagag	240
aaaaagaaag	aaacnaagga	gaaaaaactn	tnaagtngaa	aanggagaaa	gtggaaaaaa	300
tattccnttg	ggttgtatat	tgtcttctag	ggcccntga	caaaatacc		349

<210> 9466

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9466

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tcaggatgatc	caccacactt	ggcctcccaa	agtgtctggga	tcacagggtgt	gagccaccac	120
acccggccca	taaacatata	tgtttaatca	gagctttaat	gaaataggat	ggangtactg	180
aatttgtgan	tatccttttt	gctttttgag	acagantctc	attttgtcac	ccangctgga	240
ntgcagtgg	gcaatcatgg	ctcactacaa	cctctgcttc	ttggactcaa	gtgattctca	300
ngcctcatgc	acccaagtag	ctgggattac	aggtgtaccc	caccacacca	agctaatttt	360
tgcattttta	gtaaaaatag	ggttttgtca	tgttgaccaa	actantctca	aaccctggct	420
tcaagtgatt	ccccaccttg	ggccttaaaa	attgctnaaa	attaccactg	aaccacacct	480
gttgaatatn	ctttaaatag	gattataagg	tttttgcctt	ggaacaantt	ttcnggaaaa	540
aaaatccaaa	anaanaaacc	cttcct				566

<210> 9467

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9467

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tcattaggct	tttgtttttg	tttttggttt	taaataaaaa	cacttttattg	cacaaatccc	120
acaaaggctc	caggccctgg	gtccaagccc	acagccccaa	cctgtcccct	ggctctgggc	180



ctggtctttg	gtgcccaccc	tggcctcaca	tgccaacgtc	ttctgtggn	tgtgcaggtg	240
tccatgancc	ttcctgtgtt	gggggaancc	tgccctgggccc	acaagtaatc	aggcactgtg	300
gcagcctcac	aatnaaaaca	ggtgggggtgg	aattgggtcc	ccacctgccc	angctcangg	360
gccacagggg	tctacacagt	cctttctgct	ttgaaacacc	tngtaaatgc	tgggtgggaag	420
gaacatggca	ccggcaccaa	ncaaggaacc	cacttggtatg	gncacaccaa	ctgccancaa	480
tnccgggccca	ancccaccat	gcacaaggaa	acttgcncn	cctccccttt	taaaaacccc	540
ccnaa						545

<210> 9468

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9468

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gccacatgat	caaataaaat	ttacactttt	gatgggattg	tcccctcgcg	gccacccaag	180
tgtttgtgga	anaaagtctg	gagttgtttc	caagcatcca	cctgagccat	ggcatgagcc	240
ctgggctccc	ctcccanat	aataggactg	cccaccaagg	catgcaggga	ancccgacac	300
agggggaant	aaggaggctc	aatatantgc	cctgtctctg	ggtacaaaat	gatctggggc	360
tttctcctcc	catgggcctg	caancgttta	cangcctcnt	taacataaaa	atccctcctc	420
ccgttggttg	tcctnccctg	cctanccaga	aacaggaaag	ttctctctgc	cctttncccc	480
aggaaataaa	ccnctcctgg	ttcggttcct	cccaaanggg	cnnttcagg	aa	532

<210> 9469

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9469

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aggttaattc	tttcatgtgt	gagtggttca	cagaaacaat	acatcaatcn	tctgttacca	120
ccganagana	cactttaagt	tnccccaaga	gtacaaatcc	catctatgaa	acagcagtg	180
tggcttctta	aaaacagtaa	aaccaatcaa	aaagaaaaga	tttagagggt	cagacattag	240
aacaaatgtg	gccaganata	ccacagagcc	cttgaaggga	aaggcctcac	tgctggctcc	300
gtancaatgt	tgaccnnaa	acagggcagg	ccangggant	ggcagggcgc	ggaggggtgg	360
aaaggaggga	ngaaaaaaa	tacaccctc	cagacctgcg	gcaagcgcca	ctatgggatt	420
ctgaagttag	cgtcnccctc	caatttnccn	ggaaagggan	tgcttgcccc	aacangggca	480
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<210> 9470

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9470

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caacctctgc	ctccgcctcc	agagtagctg	ggactacagg	cgcccgcac	catgcccggc	120

taattttttt	tgtatttttt	antaaaaacg	gggtttcaca	gtcttagcca	ggatgggtctt	180
gatctcctga	cctcgtgata	cacccccctt	ggcctcccaa	agggctggga	ttacaggtgt	240
gagccaccac	gcccagccaa	agcctgccct	tcttcttata	tatccatcct	ggtctcccca	300
ttttaggggg	gctctggttt	ggctctttct	gccttgtggc	catttgcctt	ggactcttag	360
ctttgacctc	taaganatta	agtcctacac	ctcatttttg	ccacttccta	cctatcaagn	420
aagtgacttg	ggcaccattc	tggacactaa	tccttggcan	gctccaangt	tctcatccta	480
cattggttgn	aagttgggga	aaaaactgtt	ggtcttttat	taaaccnctn	ccccccctc	540
nan						543

<210> 9471

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9471

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tgattaattg	tctggaattc	agcttccttg	agaggcaa	ggaggtatag	gaaggccaaa	180
aattaaaatt	aaaattaaaa	accagaggaa	agagaagaga	agaaaaggaa	agtnaaagag	240
aaaaagaaag	aaacgaagga	gaaaaaacta	taaagtggaa	nagggagaaa	gtggaaagaa	300
tattcctttg	ggttgtatat	tgtcttctag	ggccaccatg	acaaaatacc	acgactgggg	360
gatttaaaca	acaccagttc	atTTTTTTTcn	cagttctgga	gactggacct	cccanatcna	420
ggtgcaggcc	anactggttt	cttctgaagt	ttccnccct	gggcttacia	atttcttct	480
cttactgt						488

<210> 9472

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9472

atgctangga	cgtggagatg	ttnaaacgac	aacccaaaat	atatatatna	aaacaggaat	60
gaaatctgtg	anaagaatat	ttttggttct	aaagacgggt	gcatccgttt	gtcttctccc	120
gaatcccttg	ctggagacca	cacgancant	gacattgcac	ggananggca	gctttgggtt	180
ccgccgccgt	cactgaaacc	accggaangc	ggctcccgtc	ggaagcatca	ccttctccan	240
ancagcgga	gcttcttttt	gagttcctcn	cattttctga	atttgcaaat	ctgatggcca	300
gtctttcgat	tcctacaact	gctgcactgc	tcgcanttga	tgcncncccg	gcagggcgcg	360
cacattccgc	agcgtttccg	cttcttcttg	ccgganctga	tggcanaagc	cagctctccc	420
tgcatgggg	atcaccaagn	ccnccatttt	ctcccgtct	ccggccanga	aaaaacctgc	480
ccgggggtcnt	tataaaaaag	cctgggttna	ttggggaaac	cccccttng	ggganattcg	540
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<210> 9473

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9473

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acagcaaagg	cagaggcaaa	ccaccccacc	ctttctcagt	tggggctgag	aaagagctgg	180
gaccctggca	gccacacac	agtctcttca	taagctgtaa	taaatcactt	atactccttc	240
tcccaaccgc	ccagctaggc	ttcctactta	tgaggttttt	cctcttctag	attgttctac	300
taagtgttca	tttaaaaaac	gcttttgttg	tctaccttgg	ggnaagggtt	tcacatcaca	360
gactgtcctt	ccccagtcca	gaatgttcca	tctgctgcca	ttcaaaanga	atcaataaat	420
ctcttttaaag	tncnataatg	ttnanaattt	tnggtntttt	ct		462

<210> 9474

<211> 280

<212> DNA

<213> Homo sapiens

<400> 9474

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atataaaaat	acattagctt	tcacattagt	tttacctgga	aatatataat	tatttgaata	120
tttaaatata	gcttttcttt	aaccaaiaaaa	aaaaaiaaaa	aaaaagtgtt	actcacagcc	180
ctagttacat	aaataattta	aatgcacaaa	tgcaaaaaca	cacttcacac	ganattgtnc	240
acatactgnt	anaacncggn	acaattacna	taaaaattct			280

<210> 9475

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9475

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnn						366

<210> 9476

<211> 405

<212> DNA

<213> Homo sapiens

<400> 9476

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atgacattga	cactgttgct	agcactttcc	cctaaaccac	ccataagtct	tggacgcatg	120
tgcatgcagc	acacacacac	acacacaaaa	accaaaaaca	aagccnaaaa	aaaaaaaaat	180
cccaaacaca	acaatccatg	attgttcaat	gactcctgat	gccgggagga	caggctgtta	240
aaaaaatttg	tctcccacaa	tatctctgga	gtgggcacaa	agcccatcac	ctgttagtga	300
tcacagacat	tcagttaacc	tgtccttccn	gtnatcngaa	aaaacaattc	aaacccggaa	360
ttccccaaaa	ccntnttttg	gtgaattntg	ggtttgaaaa	naaaa		405

<210> 9477  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 9477  
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ctcccaatta tataattaca aaaaaaatcc aagtttcagg aaaacatact taatccctaac 120  
ataaaattca tgtcacttat cacaaagaca gtcnagtgtt taaaggagaa acaaaacaga 180  
agcagtattt acaaaattta actacatgan atgttggtgaa caatcttttg ttaataaaca 240  
gcacgttaca tactttttaca tactacattt caaaaatgca tctgtgaata atatgataaa 300  
gcgcatagtg ttgaanactt taaattaaat ccnaggnct cntgttgaan acctgaaatt 360  
aaattcnagg ttgt 374

<210> 9478  
<211> 443  
<212> DNA  
<213> Homo sapiens

<400> 9478  
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gtgcagagtt attgttttcaa aaagtggagaa actacttagg tttaactgaa ganggaacat 120  
gatcttttatt ggcttatatg caaagtgttca ttttggtttt atgcanantt tgcatagttc 180  
atgatttggtt tctaattgaaa aactaaatgt gttgccagtg actgtgaaaa aaatcagggtg 240  
acagtagcaa acagaaaaat ctgaanaaaa agcntaactt ttaaagtnaa aaggtcngca 300  
agaactgctt cagctgcagc cagtgatgtc acctccatca ggttcactgc tcggaaaagca 360  
aacacggnag ctgccagcac agcaagaatt tccaganaat tgtntcctan gattctatcc 420  
cntaaaagca anantgatc tgt 443

<210> 9479  
<211> 496  
<212> DNA  
<213> Homo sapiens

<400> 9479  
gagacagggt cttgcttttg cgcccaggct ggagtgcagt ggtgcgattt cagctcactg 60  
cagcctctgc ttcctgggtt caagcaattc tcccacctca gcctccctan tagctgggat 120  
tacaggggcc tgccaccaag cctggctaatt ttttttgat tcttagtaaa nacaagggtt 180  
caccatgttg gccanactaa tcttgaactc ctgacctcag gcgatccatc tgcctcagcc 240  
ccacaaagtg ctgggattac aggcattgana caccacggcc ggccccaant tcttgaacat 300  
tacacttttc caccaacatg tnggtatatt catgtgggga attaacgggg actggaggan 360  
ggaggttnagg aattgatacc tgttcacttt gcaactaaca aangaaaatn ggttctttta 420  
aaacatttac ttttttccat gtnggcccaa nataaacacc ttaaaattta attgtttacc 480  
ttnaagggtt ncctac 496

<210> 9480  
<211> 346

<212> DNA

<213> Homo sapiens

<400> 9480

agcaaaaagt	anacttttat	tacagcagca	actgangcga	atcnaatggc	ccccagggn	60
caccactgca	gcaccacctt	tctctccgc	cccgngcgcc	ccagcgggat	tgtnaaattc	120
ggctccccta	ntgcccggtg	gcctcctttc	cacacangct	gggcgggaac	ggcaaatnan	180
cgactaacc	ccnactaaaa	agcggctgct	gaaaagccca	agcccacctc	tgttcaaac	240
aagttaacaa	anttcanaag	ggaagaaaaa	aaggganggg	aaagattatt	ctcnnaacag	300
gacccccccc	ccctcctgaa	ttattaanga	nggaaagggc	ttccca		346

<210> 9481

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9481

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tacaaaacaa	accacaaaag	caacagtgtg	taataggtag	tgagagacac	acaaaataag	120
catattttaa	acgcctacaa	acagcctttt	ttttttaggc	aacaaaatac	gtccagtcct	180
tgacatcttc	tcatactcac	ctagcaccac	agatgcaagg	acctaacagt	aaacatgtnc	240
aatctcatgc	ttaacaccta	aagcatgcac	tgaattgaat	ttgtatgttg	tgatctattc	300
tactaagtat	gcaatacata	ctttttctta	ctaataattt	atacattaaa	ttaccngca	360
gcattttgaa	attttaacat	tgatgttaaa	caacttttga	aagatttatg	aaacaagttt	420
ccagggntcc	cntcacgggt	ggtttgggnt	naatngaaaa	atggcacccc	ccncnaggtt	480
cctactgaat						490

<210> 9482

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9482

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ctgcagcctc	aaactcctgg	gctcaagcaa	tcctcctgtc	tcagcctcct	gagtagctgg	120
aactacaggt	gtgtgctacc	actcctggct	aagaataccc	tttgtttggc	tggtcttacc	180
ttatagaaag	agtaacagta	atagtacagt	gctactccat	tatcaatagg	atatgtaact	240
gtaggtttgt	actacactag	ttttgcacaa	tcacctgtat	aatcactggc	acatggctct	300
aagactattg	ttgcgtcaag	ggatgaggtc	aatcactaac	actgtaaaca	gcaagtgaag	360
cttaagtnac	agaaaagaaa	gaactgatgc	gaatgaaaat	tgctgaactc	tgctatatga	420
taattctcta	gctctccact	ttagaaaagc	cagaatataa	accctcctgg	ggatatgaan	480
atgactttcc	attttgaatg	atctctgaaa	tccttaatgc	ntcnggatta	tattaatttt	540
tcnccctgcc	aacntcccca	a				561

<210> 9483

<211> 457

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 9483

attaacaaca	aaaattttatt	tctcacaatt	ctanaagctg	ggaantncaa	aactaaagtg	60
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ctgcttcctc	acatantgaa	agggacaang	caactctttg	ggatctcttt	tataagggac	180
taatcccat	gatgagggt	cctccctcat	gacctaatca	ccttccaaag	gccccacctc	240
ctaaaaccat	cacctcaggg	gttaggattt	caatatatga	atittgaagg	gacacattcn	300
gaccacanct	taaggacang	ggtttggggn	agttaaaaag	gaacttccaa	ggggaaacca	360
acattactaa	ttttagattc	ncaactattn	anaatttgaa	nattcctgaa	ncitttctact	420
atccattttc	cccatanttt	aacacaaaata	atatgnc			457

<210> 9484

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9484

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agttttgaat	taaaaatatt	catgattttg	cattgaagca	tcctgcctgt	gaattaagta	180
cattctgaaa	tactgggaaa	agatttcata	tatcctgtac	ttgaacctaa	attcctataa	240
atggntgagt	tatattctct	ttctananat	taagttcaca	atttgatttg	tagactaatg	300
gttttattga	ttcnaagtat	citttaaagag	cagaaatagg	aaacaagcat	acaccacaca	360
caccccttta	gtttaagtga	tatatcagat	caaagttgna	attaatataa	taatcttttag	420
tgcttttaat	tgtattgttn	cgttttcagt	agaccaatgg	aaaatacnta	naatccaact	480
gcaaaaaaag	ttaggtaatg	cgggaatgaa	tnctctaacc	atatcngggt	ttttatttcc	540
cattntncng	attaattaa					559

<210> 9485

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9485

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caaaaagaaa	aaccagcaag	tanatcctaa	aacacatttc	ttaacctgag	tcataactga	120
aaacatanac	tttaattaca	ttttgttgaa	aattcattca	actttgggtgc	ttgtaaaagc	180
acttatgtca	atttttgaca	caaatacata	ccctcagtac	acaggtatct	tcaaaggaaa	240
caagtcatct	taaagtaata	tttttctata	tgctaattga	tacatcttta	tagcaaatg	300
aaaattctga	gtaaactgaa	agtatgctta	acgacnaaat	aaatacngca	tatatggtta	360
acataacat	ttcttantgt	aaaggcagca	atgaaatttg	tgtctcacia	taaatctgta	420
aatccagttg	ctttctttct	ggaaatttta	tatagtgtcc	nccatnttcc	acaatgctgg	480
aatntcttt	tttggcatca	atctatgccc	aaatttccga	atacntnttt	ncnccaaatg	540
aaatttactt	ttaaactttt	cccnaaa				567

<210> 9486

<211> 577

<212> DNA

09529459.072300

<213> Homo sapiens

<400> 9486

gaattaagaa	actaataactt	tattaggaat	gttaatgtcc	attaaaagta	taaccaacat	60
ccattcataa	gagtgacctt	tggaagatt	ttgtaagggt	gcaaataana	ctttaaggga	120
agtggacatc	cagtacaaag	aananatcc	atgtttgtgg	ctcaatgtca	tacacttaaa	180
tttcacagt	cctcaagatt	ctcaggagg	caccacatg	ttcccatg	tttccgggtgc	240
tttgacataa	ggaatgttcc	atatccatgg	ccgatcttta	cttccataca	gttctggagg	300
cnaatcatat	ggcacaggga	aagggtggcn	ttggctcctg	gctgccan	aaaaacttct	360
gtttcacttt	gaaactgtct	aaaaccaa	gctgaangga	aagaaaanga	acccnanc	420
ctaggaacgg	atcatcacct	gggttccatt	cctcctccaa	tgctcccan	gccaccttgg	480
aacaaatttg	cccttntnac	aaggaaccaa	ccatttttnc	tgaattctgg	aaaaaggccc	540
cnattttttc	ttaatatatt	gccttggcat	tntctgcc			577

<210> 9487

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9487

gaagattatt	aaattaccac	cngagacca	aaaaaaaa	atagtgaact	cactattaaa	60
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tatgtgtcaa	caaaatacag	tctttaaaac	ttaaataatca	tttaaacaga	cttaattgca	180
tacattttat	atacnacaa	agtcaggatt	tttcatggc	agggaatac	tgtggaatga	240
tgaggtctgc	agganacana	tgctatcaaa	tgaggactct	ggggtggtat	tttctaaaaa	300
tggggttctg	aaataaattt	ttattgtatg	tagcttattt	tacttctaag	aggaacaaaa	360
gatacttttg	ggcagccaaa	gtattttctac	ttcctgctta	aaacattcag	gcnaatgaaa	420
tgattataat	aattagggtta	gnccttatt	aatctctcgg	tctccatttc	cttatcttcn	480
taatacccan	aaaattttatc	cttcctttct	ccccanccc	cncctggcct	tcntnaaatt	540
ttttttttna						550

<210> 9488

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9488

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tanaaaacag	ttctgcttta	agttgaggct	caaaagtana	agctgcttat	tagtgaaacc	120
tcaataaaaa	ganaattttg	taanaaaaca	ttcttggcat	gaaagctcta	acataaattc	180
tgtaatgaaa	tattttaccat	gcaactttat	tggcanaaag	gncagtttct	gatggctggt	240
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attgtatata	aatacaaagt	catgatgggc	aacctttcca	tantccacct	acttaattga	360
ncagttctaa	gtangtaatt	ggcaccttgc	ccttctggtt	tcccctttcc	cccatagcc	420
agtctgaatc	cattccaaca	acactgaaca	cagtgatccc	tcntctgcca	aaaatnataa	480
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<210> 9489

<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 9489  
acctgtgcat atttatttat tatccacaaa aatggagggtg cggaaaanaa naaggagaca 60  
ggagggaacg tactctccca ctggaaactct ggggcccact gaggcaccat tattggggat 120  
ttcagggttg ctgggcactg caaaactgctc cctcctctgt ggtccctgaa aaaaccacaca 180  
cgcctgcttc anacgtntcc acgcacacca gtcctcacag acacacacac acatgcatgg 240  
aggcaataaa tatgttccgt accaaactgc cccagcctg acgcttcagg gggccccctc 300  
caaaagggaa gggtttaagt gctcaatttt tttcgggggg ggggcaaggg gggggcaang 360  
aaattgggat tggaaagcca nactctgtta tctccatttg ctgactaaan gccaatcctg 420  
gggtcttccc cnggaaaagg tntgggaaac actntttctc tataaccca agctaccctg 480  
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tc 542

<210> 9490  
<211> 443  
<212> DNA  
<213> Homo sapiens

<400> 9490  
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caggccgtcc ccaggatgct ggtcatgggc cagggtcatc ctgacacctg cggcagtagg 120  
ggcagcagcc atgctgaagc accagcaact catagtcttc agantggagc atctggaagc 180  
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ggggtggggg ccatcgcttg atgaggacat cccggcggct catggagcgc agcaccagcc 300  
ggctcaccac cactggcacg aactctgagc caccttgctc aaagctcagc ttagctgtga 360  
acgggtcctc atctccgatg gagtccttgg tctccactag ccgcagaant ctggganctg 420  
tntttngca atctctanct ntn 443

<210> 9491  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 9491  
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gggtctcata tgttcccca actanantgc agtggctatt cacaggcgcc gtctagcgca 120  
ctacaacctt aaactcctgg gctcaagcaa ttctcctgcc tcagccttgg gantagctgg 180  
gattacaant gcccgccacc acgcctggtc tgccaatact ttctatcagt ctgtcatgtt 240  
tactgtcttt tctccatac anaantttt ccttctcant tgggtcaagt ccattgacct 300  
ttctgttaca gcttgnaatt ttgtgtotta cgtaaaaaan gtgcccctgc tctactttc 360  
tgcacaacta tcagggtccag ctcataacaa ttcttctatt tatccatcca ctgccccaa 420  
aactgcctgg gcattcaatg gcccgcaacc ctnttccanc ccaaaggtaa aactccgggc 480  
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<210> 9492



<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 9492

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tgtagctggg	attacaggcg	cccaccatca	cgcctgggta	atTTTTgtat	ttttagtana	180
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acttttattt	tattccttct	cttccctaaa	aaaaattgan	gataaantct	gccttttttc	360
atcaaccata	ataagtatgg	tatccattca	ctacttgact	gctggaaaaa	tcaggacatt	420
tggacaaaat	gcttcaaact	ggggccaaaa	ttacctgtcc	ctccaaaaaa	ctnanttctg	480
ggcatacctt	ctctnttttt	ggaangccca	tnaaattnaa	cctaactcct	ttttcaaaaag	540
tct						543

<210> 9493  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 9493

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gaaagtgtac	aaaaataatg	tgaaagtgt	aaaatttttc	tagaatacag	gaaacatatc	120
agcagtaaag	aagtttagtt	taactttttt	tttaaagtta	aaatagtttg	gatctgttaa	180
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ttaagtaaac	tggaggagtc	agctgtgtta	atatggtcaa	attaatttca	tagttttggg	300
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ggcttggagc	acttgtgggt	ggggccaaan	gtcaggtctg	gaaatgcagc	tattatgcc	420
aaaccaccag	aatgctcttt	ancctcaggc	ttcatgaatt	gcttttaact	actccggttg	480
aacattttta	ctaagctatn	aaaattnaaa	ttcctttttc	nntaaggnc	nc	532

<210> 9494  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 9494

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acaggtgtgt	ctcatgacac	ctggctaatt	tttaaatttt	tttttgaga	nacagagtct	180
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aantcngaaa	taaaangcat	tcaacccccc	acaaaactaa	cctgaggcaa	ccttctactc	420
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ttttttttta	atacntttnc	ccccccctt	attccaaacn	taantttttg	ttgttataaa	540
atccgggnaa	ttccccccan	aaaaaaaac				568

09629469.072800

<210> 9495  
<211> 404  
<212> DNA  
<213> Homo sapiens

<400> 9495  
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nagggttgat ttaccacat tggccaggct ggtcttgaac tcctgacctc aggtgatcca 240  
cccacctcgg ccttccaaag tgttgggatt acaggcgtga gccactgcac ccggccctga 300  
atgtccttgt ttttagaaaa tacacatggt aatatttata ngtnaaaggg tntcacgtct 360  
acaacttatt tccaaatggt tcagaaacna accntntggt naca 404

<210> 9496  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 9496  
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tgtaaaaatt ttctcccatt ctgtaggttg cctgttcaact ctgatggtag tttcttttgc 120  
tgtgcanaag ctcttttagtt taattagatc ccatttgtca attttggctt ttgttgccat 180  
tgcttttgggt gtttttagtca tgaagtcttt gcacatgcct atgggctgaa tggatattgcc 240  
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tgaattaatt tttgtataag gtgtaaggaa gggatccagt ttcagctttc tacatatggc 360  
tagccagttt tcccancacc atttattaaa tagggaccct ttccccattt cttgtttttg 420  
ccaggtttgt caaaaatcaa anaattgtaa angttttngt aataattcng aaggcctgtt 480  
ccgttcccat gggccaaanc cccgttttng gtaacaataa ccaaaccgtt tttgggtacc 540  
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<210> 9497  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 9497  
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tcattgattt ttttgaagggt tttttcatgt ctctatctcc ttcagttctg ctctgatctt 120  
agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagttcttt 180  
tagtttgat gttagggtgt tgactttaga tctttcctgc tttctcctgt gggcatttag 240  
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gtctttgttc tcattgggtt caaaaaactt atttatttct gccttaattt cgttatttac 360  
ccagtagtca ttcangagca ggttggtcag tttccatgta nttgtgcgggt tttgaattaa 420  
tttccttaat cctgaattcc taatttgaat gcacctgtgg tcctgaaaaa aaaatgttgt 480  
gaattcccggt tcctttgcat nccngtttt aatgttttaa ctncccaata aagttgggtca 540  
attttaaaaa naanttnca aatt 564

<210> 9498  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 9498  
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tttgggaaag gttttggggt ctgggtgctg acttttgaat cccctgatt attatttttt 120  
aaaaaattcc ttatattatt tcggtgggca gcattatttt atcccactgc gggctcctgag 180  
cagggaattt atgatttgct gccanaacat ttgacctgg aggatgttta cgttcccana 240  
tcgtatttct ttttttcctt gaaaaaataa tacctaggat gcacactgat tcagcccaag 300  
tatataactg tgggcctaaa aactgatcaa ttgatctgc caccctgtta ggattattta 360  
acagtggctt tagttctctt ttataactcc aaacttcaga ccagtaagg ggagcatcca 420  
caaaaccaat agcttctctt ccttggggaa ctttccttaa aggaaaaaat gttgaaattt 480  
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<210> 9499  
<211> 484  
<212> DNA  
<213> Homo sapiens

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caggcgcatg ccaccacacc cagccaattt ttgtattttt ttgtaaaaac anaattttgc 180  
cacgttgtcc ganctggtct ctaactcctg ggctcaagct tccacctccc aaagtgtgtg 240  
gattataggtc gtgagccact gcgcctggcc tatttttcct attcttaaag tatttttttt 300  
tgtttttctc caccaanana ntttccatct ttcttgtgt atgttgaggt ttcatccatg 360  
tccancaggg gctctggcct ttgcaataaa atctacttat gcncanata aaaacattgc 420  
acactaactg gaaaatcctt aaaaaaacnc ctccncttt ntacttttaa aanaaagttc 480  
cgt 484

<210> 9500  
<211> 513  
<212> DNA  
<213> Homo sapiens

<400> 9500  
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gtaacttttc cataagtagt atccacaaat acaaaatcac tgaatataaa ttttcagctg 180  
tattttctga tctggttaca taaatgttct ttgattttaa ttaagccaaa gttggagcta 240  
aacagatttt ctgcaaccat ttcatcttta agatgaagtt aaagatttgc atttgaaatc 300  
tcccattatt gaattggaag tagcagttcc agttaatgtc cagcatcctc tgaatgccaa 360  
tggtctttga gtaaacatat gaaccttcat cgcttttagt tgtttaagac accacttcac 420  
atgatcagta agtnacaaca acaaccnctt ggtaaagtcn catgaatgcc aatcccngtt 480

tnaaanattt ggggttaaag gataaaacnt ttt 513

<210> 9501  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 9501  
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cttgggtatgc ttccaggcca gctgcctcca ttgcagcaaa ctccctttgat gccttttctt 180  
cttcccttgc cttatccagg cttttctgtt taatctcact gatccctttt gccacatttt 240  
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caaaagaaaa ctacataaac atcataaaat tcatagtaaa cataattttc tcataaacat 360  
gagaaaatta aaattaaaat gaatggcaga aaanatgaaa acattaattt aatgcaaatt 420  
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na 482

<210> 9502  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 9502  
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gctggccagt ccanaaggct ccaganggan gcaggcaggg tcccggggcc ctcggcgtgt 180  
gcaggctctg ctcaattgtt attcattatc caccaggang ctgggaaaaa cacagtgggt 240  
agggtgtccg gggcccnan gtggtccatn aagatncgt ggaangcctt gctgccangc 300  
gactgctggt gccttctcca nga 323

<210> 9503  
<211> 395  
<212> DNA  
<213> Homo sapiens

<400> 9503  
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ctatcaattt ttctcaccat gacaactgac ttgggtcatg tcctcatttc acacctgcct 180  
cattgtgctt tcccatctgg ttctgantt ctctaggatc aaaggaccaa gttcttacta 240  
ttcatgttca tatccagtg ttattgcata taatttcagc tggctgaaaa aaggattata 300  
tgtaaactga aaaaacaaca acaacaacaa aaaaaacaca tatctctgct gggnaanaca 360  
tgaaacttnn gnggaaagat cntnggatta ttacc 395

<210> 9504  
<211> 558  
<212> DNA

09629469.072800

<213> Homo sapiens

<400> 9504

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gaaggcccat	ntttgacctc	ccactttatt	caantcncct	aggactaggg	ctggggcctt	180
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atttatntgg	caaaattttac	cncgtggccct	tttccccccc	ccctgaaaga	atccctnnaa	480
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<210> 9505

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9505

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gtattttacac	attgaataca	aaataaatat	aaagtaactg	aaaaacaaat	caggttttcca	180
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attggtttct	cctcagctgg	tgttacaaaa	acatctgcag	tggtgatcatg	tggaataaaa	360
ntcttcggct	ctttctttct	cagtttttgc	acatctttca	cttgctgttt	ctctctgtat	420
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<210> 9506

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9506

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aagtcacaca	gcctcccctg	acactcaggg	agaatcctct	tgtgaatcaa	atacaaaaagc	180
aaacgtttgt	tttgattttt	catttatggg	tgcttaact	tatacaanaa	ataggcaaaa	240
agtcttaatc	acattgcttt	gagcgtatgt	aacatcttta	aagactgtta	attgatgtca	300
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tacaaaaata	aaaataaaaag	attaaatcat	atacacaaag	tctagaanaag	gaatgattag	420
ctttagttgt	cttgttttta	tcaagcatga	nnaaaactaa	gctaattccn	tacattggggg	480
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<210> 9507

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9507

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ctcttcctcg	ggangccgtg	tgcgccacccc	aacccttgac	ttctgggtatc	accatctcct	180
gtcacctggg	ctccagtctt	tgtccgatgg	cctcaacagg	acatcaaagc	atanctacca	240
gtttgaangt	gccctcagga	ttggcaggaa	ccacgtggac	aaaagtcttg	taaaacacag	300
cacccttggg	cagcctgggtg	atcanatcca	cagcctccgt	gtttctggga	tgangcacgt	360
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caacaccac	ctgcaacaca	caaacctggt	cactggtcan	ctggtcatta	aggtgtccnt	480
ccaaaattt	tggganaaat	tctcacacaa	aaaccggggc	ctggggcnaa	aaggttatna	540
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<210> 9508

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9508

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attcaggnnc	aagccactac	acctagattg	catatttctt	ttataactta	taaaaatttc	180
agctatatta	aaaaacagaa	tagtacaagt	nttccatcag	tcagcttcaa	atttaccaaa	240
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aaattccagg	catttttatca	tttaatccat	aatcatagt	atctttaaca	gataggtttc	360
aaaaacaacc	acggtaccat	tattcatgcc	taaatgaata	attccgcact	gtcatacaat	420
atccagcgta	cacatttcct	ggaagtttcc	ncaaagattt	ttaaaattaa	cttgtttgaa	480
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<210> 9509

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9509

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cggcctatit	acttttctta	ctaagctggg	gatctccgtc	gccctcggct	tggcaggaag	180
gcgggggtag	gggagcgggtg	ggaaangggg	gtgggcnacn	actctnatan	anggaaaaga	240
ggaanggaaa	gttggggctt	actgcagggc	aagctcctta	gga		283

<210> 9510

<211> 454

<212> DNA

<213> Homo sapiens

09629469.02800

<400> 9510

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caggcgagag	gctcantggg	acctccaccc	tcgttgcccc	agctgggtggc	tgaccangtg	240
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tccttcagcc	ccatgtcctc	acacaccccag	cggatgtcct	cctcgcctgc	cacaaggatg	360
gactgcacag	caggggcccc	tacaggctcc	tcagggtgact	gggctggagg	ggctggcgca	420
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<210> 9511

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9511

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aacattccca	aaagtacaac	tctaaaaatg	tcagttttgt	tcatatagga	ctcccaactt	120
taatgatata	cccatcntac	agccagggaag	cagaacaatc	cctccagaaa	aaaagcacaa	180
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taagaangaa	gttgggcctg	ttactgtttt	cagaaattga	aaagagtacc	atcnttaaga	360
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cccanttggg	agaatttgtg	gatattgctg	gaanaattgg	aaatgcnccc	tattagccgg	480
gtantcctct	ccccaaccgc	ctgttttggc	cnaaatttgg	ccccaatgg	ttttccccc	540
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<210> 9512

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9512

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caaagatatg	tttatgttcc	attaaccgag	tatgaagcaa	aatcattaaa	atattacaac	180
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cttcaatttc	cagctgtttt	ttttttctaa	ttcatatcat	ggattttactt	acaaggagct	300
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tgtggccaaa	cagatcatgc	tctgatcaga	taagtatact	gtaatctact	tatatgttta	480
ngaattggca	tagggttaaa	aaggcccaaa	ccgttnttta	atacncattt	tcctaataac	540
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<210> 9513

<211> 593

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9513

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<210> 9514

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9514

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aaaggtgtcc	tttctttcta	atantctcat	gtcgctttag	gtcaactggg	ctggcttaca	180
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<210> 9515

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9515

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ccctaaaatc	tgTTTTTTct	ttcttcaa	aataatatcc	accacagcta	cttattctga	180
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<210> 9516

<211> 609

09629469.072300



<212> DNA

<213> Homo sapiens

<400> 9516

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ggtgacacct	aattaaaaaa	tattagctnc	ttccatatna	acccaaattg	attttgtgcc	540
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<210> 9517

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9517

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gatatactta	aaattttttt	taagccgaag	aaaattnact	actattttacc	atgacaattt	480
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<210> 9518

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9518

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<210> 9519

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9519

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<210> 9520

<211> 623

<212> DNA

<213> Homo sapiens

<400> 9520

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caatttttaa ggtgtaatag tagccaacta gataacttag cactgtgact atcactttt 480  
aaaaatttg tgatatacaa aattttaaac aaatcagata aacactccac ccctatgctg 540  
tccattaaaa aancctaata aaaatcctat atataaccga caactgcata ccccatntt 600  
nttttttnc cccaaattnt tnt 623

<210> 9521

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9521

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aggtctgtct tgttctaaag cttgcctttt gtaactcctg cacattaaac aaataatcac 180  
aactaatttc ttaaataatt acaanaaanc caagtgtttt gaagtataaa tacaaggggc 240

taccgaagca	taaaatggga	attggaaaaa	tacctacctc	accanaaatt	attgtnagaa	300
ttaaaaagca	ctcattgggtg	cactttgtat	atcaaaaaaga	actttaaaaa	tggtcagcat	360
tgtcaaaactt	tgtnccanga	nanatantct	tatctggaca	ttcatcacct	tgaaatttcc	420
aaaatgttaa	acgccctctc	ctgaacagtg	caatancttt	ctgtatacct	ttgggaatac	480
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<210> 9522

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9522

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gtacattcaa	aatacaaaa	taaagcatga	gttgtcatta	atttgcagaa	ttctatgatt	180
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gattttggac	tgaagtactg	tcgttccatt	cctttttttg	aggtgttatg	antggggcta	360
taacatcgcc	atcctgcggc	ttggtgaaat	ttctgtctgc	acaccactga	aacaaaaatat	420
tgtcttgcgg	catacaaaact	ctttctgtcc	accttcttac	aatatactcg	aatcanctgc	480
tctgcaaatt	tctctggcan	aanttgtaa	acctggtttt	aagtaatcct	gatgctctgt	540
tgggggcagt	cttncataaa	accaacttna	tcatt			574

<210> 9523

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9523

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catttactac	caggaggaaa	aaaatggctt	cctgcaattg	acagtctggg	taaaggaatt	240
gctcaggttg	acaatccgac	cctgacttcc	accttgactg	cgttccacaa	tcacacaagg	300
tatctgtact	agctggaaaag	gactcttccc	gtctctcaat	gcctgagtaa	ggtttaanat	360
ctgaccctc	atcacagaca	tctgactttc	aaaagtggct	ttgtcaaata	ctttgtcagt	420
cttaaaaant	tcataaaaat	cttncataaa	atcttgccca	aatttcatnt	caaaaatata	480
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<210> 9524

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9524

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aaggagaaca	agtgagattt	taataggaag	ataaaagact	ctgccagaag	tatttttttt	180
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cttgggctcc	ccaaatgotg	ccanaantnt	tctttactgg	cttgaacttt	gtccccaat	480
acnttaatat	ntttatgtta	caaatcnccc	gacagttaaa	aatntttttt	tccctctgaa	540
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<210> 9525

<211> 445

<212> DNA

<213> Homo sapiens

<400> 9525

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anacctgcac	gttctgggoc	tttctcattt	caccccaggc	ctgcccaccc	catgaggcac	180
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<210> 9526

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9526

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ctatccattt	tacaaacaca	tgccattaat	cacaaggag	gccanaagga	ggtttcatgg	180
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ctgatgatgg	atggcacttg	gaaaacatat	ttccaaaaat	cntggcaggc	tgaaattggg	300
ggccattaac	ccccactga	atacctnccc	ttgaaaaaat	tttccantaa	naatgccnc	360
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<210> 9527

<211> 417

<212> DNA

<213> Homo sapiens

<400> 9527

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tcaaaactcaa	tgttctgctc	agaagtttcc	atgatgaanc	ctatttgtct	ctgaggctgg	180

ggctctgcct	ttanacttat	tctgctccag	tcataggttg	tggttgtctt	tgttcttggg	240
cagaacctgc	aagtanactt	catgaantgt	nctgangaac	tggaatcatt	ctttattaaa	300
tgtattaatg	tttcccgga	ccgaaaactt	gctgaanaat	aatggaaagg	cttcctctna	360
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<210> 9528

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9528

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ctcccaggc	ccctggtaac	caacattcta	ctttgtttcc	ataaatgtga	ctactttaga	180
gacctcatag	aagtgggaatc	accccatatt	tgtcttctta	tggnatgactt	atttcaactta	240
gcataatgtc	ctcaagggtc	ntccatgctg	cttcctgat	tttgattcta	gagctcttat	300
ttcctactac	ttccccta	gaaatgtact	ttaattnggg	ctatttncct	tangntttt	360
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<210> 9529

<211> 327

<212> DNA

<213> Homo sapiens

<400> 9529

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cagactatgg	aggattcnc	accagactgg	gaagcaacag	caacagcctg	ggctcganan	180
tcggacactg	cactcaccaa	actatggcgg	attcaccncc	agactaggaa	acaacggcct	240
gggctccaaa	ntcggccact	cgtccgtgca	canacaaaga	naggtctcnt	gaagcttcng	300
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<210> 9530

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9530

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gacaacacaa	atttaaacaa	acaggactaa	agtagctcat	gttgcattta	actatgggtc	180
ttgtgtcct	aatagagaag	tagctaatat	gagaaacaaa	cagttccagt	ttcaacctaa	240
attaaagtta	tttgtggcaa	gtaacatgaa	acaatgatca	tatgaagtca	ttatcttaaa	300
aagaaccatt	cttcagaaat	cactttgtgg	caaagcacca	tactagggtta	gactatgatc	360
ttaaacaat	accttcagtt	aaagacaaat	ggtctccatt	ttttgaaaat	tacctgaatg	420
attccaattt	ttattatgcc	ataaatttta	tctttccatg	ttnaaggtat	ttttttgaac	480
cctnaattat	tcngaaaaa	ttcnatttaa	ccattantcc	cngggacc		528

<210> 9531  
<211> 602  
<212> DNA  
<213> Homo sapiens

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taagcccaac tcatcactga tcaacatatt tcatgctgat aagcatttag caaaatttga 360  
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taattttacc nggcanaatn cccccnaaa ttttttatgg gtctttaaaa aacaccggcc 540  
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gg 602

<210> 9532  
<211> 485  
<212> DNA  
<213> Homo sapiens

<400> 9532  
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tttataaccc attaaaacag tatctttcta atcccctcag antgggaaaa caggtaattc 120  
tcaacctggg agacaagctc tgaagtnacg anctatcacc tgctgcagga ngtgtgaaag 180  
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gtcggatata agtctgagtt ttcttttcaa agctccctta tgctgagagg aantntgaac 420  
anaatccnac tgccgtcttc acacaantgc cgaactcctt tccccnaaaa actcctttna 480  
atccc 485

<210> 9533  
<211> 516  
<212> DNA  
<213> Homo sapiens

<400> 9533  
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taaaccagcc aaagaaaata accagtttagc acttaataaa gaatctacca tgtaaaaaaac 180  
acagtatggg aactacaag gtagtattta tatatttttt aaatgactga gctacagtac 240  
aacagtcatc tagttcagtg gttgtctaaa acatcaagct gtccacatct ttctgattca 300  
tgatgggaaa gctattatga cctttcacat tcgaacatgt cattttgttg tgtaaatgtg 360  
gtgggtgggg ggcagaaagg ctctattacc tttatccctt tcttataaat atattttccc 420  
ntttatatta cttccnnaat tttaaataaa atatttaatt gtgtttgggt tacnaccaag 480

09629469.072300

ttcacattgt gttnaaaata tattaacct tntttt 516

<210> 9534

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9534

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tacactgtca	ccacataaaa	gtgtgagggt	caacatttgt	tttcttaaaa	acagagcact	180
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aaattatttt	ctgaacccaa	tgtgttctac	cttaccctan	aattaaatcn	ctgggaaata	420
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<210> 9535

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9535

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gcactcctgt	acaatctttc	tttttatcca	aaaaagggtc	tcatattatc	tctatgacct	180
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accttatgga	tatgttcatg	caagggtgaca	aaaatatatg	caaaagggtc	ttcactcttg	300
ctttctttgt	aataaanaag	tgaaaaataat	cttgtagtcc	attcaacagg	ggactaattc	360
aataagttaa	agtatactcc	tacaatggat	tatgcagtaa	tttataaaaa	aatgaaggta	420
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<210> 9536

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9536

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taacccacaca	gtgggagttt	gagaaaagaa	gccagttctg	aagtttttac	agacattaaa	180
atagaacttt	atactcacag	aataataata	catagagcaa	tttggttaaa	ttatctagga	240
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cagagaaatc	acaccagaaa	taaaataggg	acgatgacna	ccacaataat	taaaagcaaa	360
gaaggttcct	ccttgccctc	tacggataaa	gtatttatat	aaataaggac	acaacccaac	420
aaaatggaaa	aaatatataa	aaatcctcta	ccaatnaaaa	aaaatagcna	aactaaaact	480
ngatcnnnat	cattacnat					499

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<210> 9537  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 9537  
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ggttgcaact atctttctct agaaaagaan agaactgggt attcatcaaa ttgggttaaat 180  
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taaanatcga ttttccanac aggtctctgt tcttccatga acaaatgata agaaacaatt 360  
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tctctccat ctctaaaatt accccctgcc aacaaanaat tgatctttct tccccaaaac 480  
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anatttct 548

<210> 9538  
<211> 580  
<212> DNA  
<213> Homo sapiens

<400> 9538  
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cactgacaat ctccanantt gaacctttct ttanttctgc caagtttctt ccattaattc 480  
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<210> 9539  
<211> 572  
<212> DNA  
<213> Homo sapiens

<400> 9539  
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ctgttaatct gatanatttt tcctttgtaa gttacctggg gcttctgtct cacagctctt 360  
aaaatggttt cctttggata acctgatgac agtgtacctt agtgaanatc ttttgggtgan 420



gaatttcccg	ggtgatcttt	gtgcctcctg	tatttggatg	tctaagtctc	taacaaggcc	480
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<210> 9540

<211> 383

<212> DNA

<213> Homo sapiens

<400> 9540

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tgcttggatg	tttttcccc	actttaaaaa	aacttttgag	gtttttttt	ttttttgtct	180
tttaaaaaca	tcgtaacatt	aacacatggc	cgttcaccgt	cccccaacga	tggganctgg	240
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<210> 9541

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9541

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gcggataatc	ccagactcaa	gacgtnatta	ttccaacaca	tatcctccag	canaancagt	360
ttccgagggg	aaaaccgaan	cctatgcctt	ccttcttcca	agaaatacaa	acggnccttg	420
cccctgtngg	cttcgtcctt	angttcccgt	catgaangta	atcaaaangg	ttcttttcca	480
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<210> 9542

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9542

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<210> 9543  
<211> 540  
<212> DNA  
<213> Homo sapiens

<400> 9543  
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aatccccag ggccattncc aaccctttcc cttaaaaggn gnggcattgcc cattcctctt 540

<210> 9544  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 9544  
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caatctgatt ataccagcag ttttgtaaca tatcggtana actgttctgt aaatgcttca 180  
ggggaaaatt tttccttcac tctggctott ccagccaggc ccatggtggc ttttaaggaa 240  
ngttcacgga tgaacttttc tattgcttct ganaagtgc cgggtcagg ctcacacana 300  
aaccctgtga cactgtggtc aatggactcc aagggtccac ccgaattaac agcaatgact 360  
gggcactgca tgtacatggc ttccanangg acaatgccaa agtgctcatt gcttggtgtg 420  
ttaacacaca ctttactgt tggagaang aaaatttcct tttttctaaa aaaaaccccn 480  
naaaggtccn ttcttgcca aggtcgantg ttngaccatt tntccattc cgg 533

<210> 9545  
<211> 500  
<212> DNA  
<213> Homo sapiens

<400> 9545  
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aaaaaaagga acagctcaaa aaacccttga aaaaggtag ggtctggaag actcctgttg 180  
tgcangccat ctcccggata nantgcatgg ccagttgggg gctgcctaaa tccancaccc 240  
gcagccccag ccgaaaaacc aaaataagtc cnatggtggt tccacagggg gtgtcnttcc 300  
ggaccatgaa atcctgcagg gggaccttga ctttgttggc cacctctcgg atcanggcct 360  
ctgacaccgc gtttgaaaca taacgttgct tgctgttccc ttgatcacog ggcccttgtt 420  
gaataaaagg ccgtnggttc ccncctncct gttccnnttt tttgggaatc cccaccttgg 480  
gccctttntc ccctnttttt

<210> 9546  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 9546  
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attgatattt acaaaggntt tcaaattcaa caacacaaaa caaaacagct taatttttaa 180  
aaactacaat gcttttaaaa aatgtaaaca gttaattttt tacattattg taaaaaagaa 240  
gactcactcc ttaatgtggc ttaatttttt ttaagttagc caaagcctgg tgctcntgga 300  
taaagaatga aaataattct ttacatagaa acattgtgct ccagtgtggc aaagaaaaaa 360  
aaatttatatg tncacatatn aagaaaagaa tcttaagccc ncaattttaga cccaaaaaaa 420  
tcttgtcccn aattgagaat ttataaaaac catttacata tggttgttga actactggaa 480  
acctatntac cntttccaaa caatacccct ccaaaaaacc ctttttttta aaattaaatt 540  
ttgtgccaaa aaaantgntt tancctaaaa canacatccc ccctt 585

<210> 9547  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9547  
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caactaagga naaaacaaac gtccaacca gatctaagaa accagancta tggagganac 120  
gttgactgg actgctgggt atgcacaang gggcaggagg ggcgatcccc atggggcatg 180  
gccactggcc atgggaaaca caggaggagg gccaggcanc tggctgggcg gttatnttaa 240  
ccgctgcacg atgacagcat tgancagggt ggcttccttc agggctctggc tctcatcanc 300  
cagctctttg ttcgggaaag tattcatgaa gataaaactg gtggcaccat ggctggccgg 360  
gcatccacca taaaaaatcc gatgtcncct atcctgcang aattggggaa accgtnaaca 420  
atgccatcct ctgctgtcca taccctgccc tgtngaaaac taacacctcc ccaatcccct 480  
tctgacttt ctcccnaaa caccaaaact cccccngcc ttgggacaat tccctccctn 540  
ccaaaatcct cccttttttt ccctttccct gaaanaacc ncccccc 588

<210> 9548  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 9548  
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gtaaatgang tcttggtttg agagaaacaa ggattgggaa aaaaagcctg tattttccag 120  
tcctagtga acgggagana aagaangtgt cagaagtgga gcaaaagtca nataccaggg 180  
tccccactta attttttagcc cttggtcacc acagcccaaa aggttgggtg ggagttgctt 240  
tanaaacacc cacatggcca cggggaancc cancaacact ggggctgggt gaatncctcc 300  
gcaaaccngg gaaaaagtcn cccttggctt gaacttatcc tgctgttttn aaagctgtga 360  
tgggac 366

009220.69462960

<210> 9549  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 9549  
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gatgtgtgcc accacaccca gctaattttt atatttttag taaanacagg gttttaccat 180  
attggccagg ctagtctcga actcttgacc tcaaagtatc caccgcctt ggcttcccaa 240  
agtgttggga ttacatgcgt aagccaccac aatcagctga gttctggctc ttagtattac 300  
tctagttagt tctctagata ggctatggcc tggaanattt taaaatttca aattggactt 360  
attaaaataa aattataaac aatatttcna agtttatttg attttaaatt acttcnttac 420  
tactatttaa aaataatctt aacaacaaaa atattaatcc cggcgtcttt ttctaccctt 480  
atcataaatc cctaattgggt aanccataat atatangtct tactgggatc nccaataaat 540  
taatccttna aagttctgaa tttcccccct ttacccaatc cccc 584

<210> 9550  
<211> 591  
<212> DNA  
<213> Homo sapiens

<400> 9550  
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anaaaacgac aacagatttt tgatacagaa tgacaaggct tatctataac acgtcaacgt 180  
tttcgacgac tctgaaattt ataaatagct ggggagttca ccgtttcttt cttcaccttc 240  
actttctgag ttttatccat aagatctttg cgtgtttgaa ttttctgagc aataacgaac 300  
aatttcttct ctggttcaat ccgctgtgtc aggcagttat actgcttttg cctttcttta 360  
gctattcnct taagttccag tctgattggg aactcctttc ctttttcttc tgccaaggtc 420  
tctatcctgg gcctattaaa aacnctgtca actaactccg gggctgnttg caggtnattt 480  
gcaanatcaa actgttcacc tnccttttng gtgtcaaaaa aanacatgc ttgttccttt 540  
gctcccctga aatcccccaa atganccng aattttatcc ttccaatttc c 591

<210> 9551  
<211> 596  
<212> DNA  
<213> Homo sapiens

<400> 9551  
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ggaaattaaa ctgaaccttt aaaagggtacc gcatacggac ctggttgggg ttatatacaa 180  
tatattcatt gtagttgang gtataacat ctggattcag aattcctgtg tcaactgtctg 240  
gtcctaattg cactgtactc ccattcctgc caaatggaaa aaaaatgtgt caacatcagt 300  
ctctggttca gaactgcaat aaaaaacgta tcttatctgg gccaaaagaa ttctctantc 360  
ctcctggttc tgaattactt acagggtgac aaantgggca aaactgggaa ccatcttgcc 420

cnccccctgg	gtgctatattt	tccttgaaac	caaccctccg	gccttaggaa	tgggccncta	480
ntttttcatt	acnctgnacc	taaaactacc	cctgataaaa	caaccatcct	nttttctttt	540
gcaaaaaagc	aaaccattaa	ttngccncct	ggaaaaaatt	tntcccaatt	taatcn	596

<210> 9552

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9552

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tttcagaact	acaaatgtca	gaaaggggca	tctatagctg	ctaccgacca	aagtaggaaa	180
ttttagagca	cagtttctct	aggaaatacc	atcaactaac	cctccacaaa	tagctgagat	240
tgacagcttt	accatggttt	atttcacagt	agaaaaataa	ggtttgagcc	gggcgtgggtg	300
gtgtgcacct	gcagctccan	ctactcanga	ggctgaggca	ggaanattcc	ttgagcccca	360
cagtttgagg	ctgcagttag	ctgtgatcat	accactgcac	tcctgcctgg	gtgaccagtg	420
agaccttgtc	tcaatgtggt	gactcctgct	tgtntgttat	tcnccnctt	ttaaggggcc	480
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<210> 9553

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9553

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caggggacac	ttactagtat	aaaaataata	caaattattgt	attttcctct	tatctgccag	180
taaaaatggc	aaacagtttt	gtctttctga	agtttctagt	caataaccaa	agatgaggag	240
cccctaataa	agtgccttgc	cctgtatgct	ccactgtcta	tagctttaga	ccctcaacat	300
tcttcttcaa	gttcagcagc	tctttttctt	gccttctttt	ctccagttta	aatgctaatt	360
tgtagctttt	cttctccact	cttcgttcc	tgcgctcttc	ttttatagct	tgctttcttg	420
ctcttttatc	ttctttgctt	tcatttttaa	aaacgtggct	gaattganac	ttaagaaaaa	480
tcactggcca	ttaacntccg	ttatcctttc	agttggcttg	ggngnantcc	tttcttttgt	540
aaaaaattga	aaagtttctt	gtttaaaaaa	aattcaaatt	gtttggg		587

<210> 9554

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9554

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cccacagcaa	atctattttca	aggacagtac	tttttaaaat	gattaatgtt	gagttctcaa	180
ctagctctgc	anaactanag	ganctgtttg	catctgtctg	tgcggtatga	gtttctttta	240
tctgacacca	ggtctccaac	cacactgaaa	caaggcattt	atctacagan	ctcaactana	300

accctttttc	attaggctac	tccacttcct	tcccctcata	cctaccccac	atcagccacg	360
tggttaanaa	ggatagtcag	gaatgttttt	accaactcca	agccctaatt	catactcctc	420
catatctccc	accccaccct	ttcaacccca	ccccacccc	cagaatttca	ttgatatttc	480
tcccaactgt	tatttggaag	aaaagttaaa	caaaaaagtt	ccangtcttt	gtgccancca	540
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<210> 9555  
 <211> 581  
 <212> DNA  
 <213> Homo sapiens

<400> 9555	
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tcgtgatcca	cttgccctcg
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aatctgcttt	cgaacccaaa
tcacaggata	tcccaattgg
caagttataa	acgggcaaaa
tccctcccc	cttanaaaaa
aggtttnaaa	aaatggtttt
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<210> 9556  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<400> 9556	
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ctgntaaatg	actactcnca
tttcctttca	cttttccaat
tntttgaaat	anaaatcaat
ctttgcaggg	anaaatggc
	tt
	60
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	240
	300
	360
	420
	442

<210> 9557  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

<400> 9557	
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	atttgtacaa
	actcattgtt
	ggactctggg
	acatgcacat
	60
	120
	180
	240

09629469.072300

atatgcatca	caaagcagtc	ttcgtgcaca	gccttggatt	ctcctggagt	ccaaggaatg	300
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aatgttgaac	cattctgacc	accatcccga	tcggccatgc	tgtcaaaaaa	aaaccagcaa	420
aatcnccttc	ccatacttca	caaaagcaca	tatgggcttg	tttctatgca	aaaaacaaca	480
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tgggaaatna	cccngggttt	tttttttaat	cccccccctc	cgaaaaaagt	ggaattnaat	600
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<210> 9558

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9558

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ggtcttgaga	aaaggacagg	acccgcagat	agcganagat	cagaggaggc	cctaatttct	180
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aaagcatcaa	gctctctgtt	tatcccaatt	caatgacaac	cagaacttat	tttttttgan	300
atggggtctc	gttctgtccc	cangctggag	tgcagtgggg	cattcatggc	tcatcganc	360
ctccaactct	cantctcaan	caaccncct	acttcagtgt	cctgaattan	ctggaatata	420
ggcatgccc	ccacacttgg	ctcattttta	aaaaatttct	ttttnaaaca	ngatnttgct	480
acattgcccc	agncttgaat	ttcntgggtg	cattcccanc	tcccnccagg	ctcaaaatcc	540
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<210> 9559

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9559

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agagtaaagt	gtattctgag	gctacagcct	atgtgcatat	gtttatatat	gtattttgtt	180
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gctagtttat	gtcccagggt	atttgggaca	ccacacctca	aggatatttt	tgaataattt	300
tgagattctc	aaccactatg	agttgataag	ggatctagac	ttctcagaga	catgaaatta	360
gaaaatgtga	ttttaaaatg	atacttaatg	aaaacataca	gttcagaaac	actgaaataa	420
tactatttta	nttttaaacc	ccaaatcatg	cattcatgaa	aactttgggt	tttacnttca	480
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<210> 9560

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9560

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ttaccagcat	atgtgactta	gttttcttag	tttttgtcat	ttttaanaat	cctggcaa	120
aattttaaat	aattttattg	ttactaaaat	ttgatataac	cttaatgac	tttcagcaca	180
ttatcaaatt	atttagccat	cctaaaaatac	ttgatgaata	aattaataga	agttaatgtt	240
tctagtttgc	ctcacttttc	tggaattatt	cttattttgc	agattagtct	tgccaaactac	300
cgatgccaca	gaattttaatt	accaattgca	aagccatttt	catagtcata	attatattct	360
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caaatgatg	gggaacattt	ttcccagggt	cgtctccaat	gcttcanaaa	acttcttcac	480
agatctgtgt	ctcacaacna	actgctttgt	nnaacatctc	caaggantga	anccgtgggt	540
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<210> 9561

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9561

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atccagttaa	agaaagatac	agttgaaaaa	cattacgttt	taattctcca	tgagtaaaagt	180
gataagtaac	tataaaatca	ttattggggag	aacatggaaa	cagtcaagca	taacgaactt	240
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tcattttctt	ttgcccttag	gtgaaaaaca	cctgacagct	acatgctgag	ccatgctaac	420
aaaactaaac	ctttcacttt	cttttaatagt	aaaattacca	ttactgaatc	nttgtcctaa	480
aaagtgcctc	cagttcttac	cnccttatttt	aaataaacnc	cattttgaaa	catcnnccttg	540
aaaancgcct	aatttttttt	taaccccgat	acttccattt	tccccngg		589

<210> 9562

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9562

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atgcctgggt	aatttttgta	tatctgtatt	tcttgacagag	gcggagtttc	accatgttgc	180
ccagactggg	cttgaactcc	tgggctcaag	aaattctcct	tccttacctt	cccaaagtgt	240
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aaggaccatt	tctctgacta	atatgtattt	aattttggaa	gttaaaaaat	ttinggagcta	360
aaagtatgat	ctgaaagacc	gaaacanatg	ctcctttatc	gataaagatg	gatcnaatgg	420
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<210> 9563

<211> 427

<212> DNA

<213> Homo sapiens

<400> 9563



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cagccctgaa	tgccctggga	ntcantcact	gtcactatca	gcttcactgg	aatcagaact	180
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gtcactgcca	ccttgggcct	gtcctctgtc	ctcatcatca	naatcngcat	cgtcctcaaa	360
atcancatca	ctgccaaaan	atntcctctt	tgtcncgggc	aaccggggcc	tcctctcnc	420
tgctctc						427

<210> 9564

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9564

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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<210> 9565

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9565

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aaatagaagt	ttaggtcaag	tgtaagctt	tatcactttg	acactgtcct	tatctcacia	180
tgagggaatt	tagaaaggac	cttaacagtt	tcacaaacat	aaataaagcc	ttagtcacac	240
taaattaaaa	aaaaaaaaat	tccttaggga	tatcttanen	tagtaaagtg	acttcctcat	300
ataaatagtt	tgaaagggtg	cttaagtttt	tcacccaaat	tgtgatatac	aaaaagggtg	360
ttaccaagca	acctacatgt	caagaaagcc	ccanttaggg	aaggagccac	agcattttatc	420
ttgtttataa	tttctttggg	acccccactg	tttaaancac	aggttgaaca	ccatgttcat	480
ctaancctta	ttanttaaaa	aatntntnt	ggcaaggcaa	ataactattt	taaaaaacat	540
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<210> 9566

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9566

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gctacaggca	cgcataacca	tgcttggtct	ttgtcagtat	gaatccctgc	tgtgtcccca	180
gcattctanag	canagcctgg	cacatggcag	gccatcttt	gtggagtga	ctgggaacag	240
gancgctggg	atggtggagt	gttctaagt	agacagccac	agtgcccgtc	ctgtttgctc	300
ctctcgcccg	aactgccact	ttcantgtca	ggactgggga	aaaacatagg	caaaaaggcc	360
tgaaatccaa	gggacccan	gctgcccact	gccaccgcc	cacctcancc	tgcccacac	420
tcananggtc	tcccacctcg	gcctggccan	cgcacaaaag	cctcccacct	cggcctggcc	480
aancccccac	agctccccct	cggcctggcc	cnncnccaa	aaggccccc	cctccgcntg	540
cc						542

<210> 9567

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9567

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tgagcaanaa	agtctctgga	tttcaggaga	aggaaaacag	cccnagggc	agganaaaca	180
cttgtgaagg	gtccattgaa	aanacanana	gggggcagct	ctggcctctc	tgctgccact	240
tccctcattc	gatgcacagc	ggtggggctc	acaccatttt	ccactcancc	tcttccgcac	300
aacctgcaca	tctatcgttt	cttcaggggc	tgganctggt	tccaccatgc	ctanccnaaa	360
tcanganggg	gtcctggggc	cn				382

<210> 9568

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9568

caatcanaaa	aggttttatt	ataanaaaca	atgacatcag	gtaaaaatgc	aaaaaattgt	60
gcaattatgg	caaatgttt	aaaaatatct	acacatttgc	ccccacagga	ctacagtact	120
tactacatac	ctgagcactg	aacattgaat	tccattttta	actgctttac	atagggaatc	180
tgattccttc	atgatcacat	ccatttgttc	tcatgaccaa	taaaatcagc	ttgatgctta	240
agcatcaact	ttgttgaaca	gaaaacaaag	atggaaaata	aagaatacaa	tttctacttt	300
cctataacat	anttataccc	antccagttt	tcaatgtgtg	acaaatatat	aggaaaagtg	360
ctncatacat	tcttcaaagt	caaaaacaaa	nttaaagtgg	aactggcatt	attttnaanc	420
tacattttta	ttccgtttta	ccnttgtgcc	ttttacttaa	ngggtctgcc	ccnctatgaa	480
aatgcccctt	aaatntctaa	attataaccc	ccccttttcc	tantcctact	tttcnangga	540
cccctcngaa	acc					553

<210> 9569

<211> 353

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9569  
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tacaatgtatt tggcaagatt ttagagtatt ttcttttaaat ggactgggtt caatctttat 180  
tctggaagct tcaccgtatt tttcctgatt ttctataaac cttatttcac ctgtacngag 240  
aggctctcca aagccagtaa cttctcctgg actccttggg ntctctaaat tttctntaca 300  
acaatcagtt tttttaattt cacaaggncg gcganttcta ntttcatnnt tgg 353

<210> 9570

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9570  
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taatctacag aatttttaaaa aatctaaata aaactattac gctggccaga taaaatagta 120  
acaaaaaaag taaagagata taaaacaaac tgtacactat tacaaagtag tggttctctg 180  
tatgtctatg tgtatatatg tatatatataa actatacaga tacatgtgtg tatataaaca 240  
tacatatgta tatatacaca catatactta attttaaagt taatcaaagtg gttatcaaaa 300  
attaatatac aacaaagatt cctgggaagg taatgcttat ataaaataag gccatgtttc 360  
taaaaatccc tcaaatcagt ccaagataag atttttaatg aaaaacataa aagggttaaag 420  
aatcctttct ctccaagtta gccggttttc cccactgtt ttctctctgc cttttcccgg 480  
tggtggtcca aataaacctc cttgtgccct naaaggccnc ccncctntna aatggccncc 540  
ccccttatga aaaaatcnac ccccaa 566

<210> 9571

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9571  
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tcacaagttt tacatgaata ttctaaatac aaagtctcct gaaacaacat acttttgata 120  
tgattttcat ttttaaaggg atgcaaacat tccattttct catttataat ctattccaag 180  
gcaaagtatt ttaataatgt atcctttctg cagttagatc acaattcaca agtataactg 240  
aaacagacaa aaccttgtca gcaaaggta aaagtccttt tttctttaaa aaaaaaaaaa 300  
aaaggagggt naataaccag cccttatgtg ttttcagaat ttgtactac actgacatga 360  
tttgagctca ggttttttctt cctacccctt aaggntacaa aattctgttg caaatgcntt 420  
gcaaaaanaat ctanaacact taatgccaaa atcaaaaaat attttccata aaaantaatt 480  
ttataaatgg ttagaaacan ttctgtggtt aacnacnaat tgaaatttnc cccattact 540  
aaaccaatcc tntttcccca aaacaaggaa aanaggtttc cattccacaa nctttaccgg 600  
ttan 604

<210> 9572

<211> 495

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9572

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	120
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnn					495

<210> 9573

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9573

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gagaaaggag	agcagaaatg	tataagtttc	tgagaatgac	accataaagc	tcataatttac	180
agtatggtag	tctgtaaaca	tacaggcctg	ccagttaaag	cccactcttc	tatcatcacc	240
cagctgcatg	accctgagca	agtcactttt	gtttgcta	ttttaatatc	atctatcacc	300
tgacttctct	atctacgana	gttaactggc	tgcatgcaaa	ataccatgaa	aaataaccatg	360
cactttttaag	tgtgaantac	cctggtaaag	tgacttatat	attactggct	tcctattttt	420
agagtattaa	tattcatacn	tcagttaaaa	ntccacatgt	gttggctaan	tgatcccttn	480
gaaaggatcc	tttaaaantt	cctaggctca	nctccctgaa	caaccggt		529

<210> 9574

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9574

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aaaattgcta	ccacatcact	tttcatagca	gggaaccgaa	atctgtacat	ctcatttttg	120
cagaaaagta	ggcaggcaga	agaattata	cataaaagtt	tccaaaagga	aaaacaaaga	180
aatattta	ctgatctctt	ttcttttaaa	aaattaattc	agtanacttc	tattttttcc	240
tgtgtaacat	gggaattcct	ggctctaaaa	tggatgaatt	ttcagtgtca	gtgtaaaaaac	300
atcttggttac	tttcttttaa	ataaaaactg	cagcgtggaa	attaatgggtg	tattacgc	360
ttaaactccn	aataggccgg	gaactggaac	caagtgttaa	gcaatttgct	taattattga	420
ctnccgtaa	naaaantcta	ggggaagggg	gaaanaaatt	nctttaacct	cncncaaaa	480
atttctccgt	tcatt					495

<210> 9575

<211> 370

<212> DNA

<213> Homo sapiens

<400> 9575  
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accatttaac tgtgtatcct tagatcatca ccccatacct caatttcctc ttttgaaaga 120  
gcagttcagt aaaagagttg ttacgagaat aagagtttat aaatgtgctt ggtatataag 180  
aagtattaag caaatatcac catcagcagc agaacacaga atctggtaga gaacaacagt 240  
ctataaaatg aatctaggag gatctcagtc tcctcctctt ggaaactccc tcatcttttt 300  
tattttatct tgagacnggg tctcgcctctg tcaccagctg gaatgcaatg gcatnatnnc 360  
nggtcantgn 370

<210> 9576

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9576  
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atgtacccat taaactgcta aaaaataaat tgagtgggtga gaataccaca taagcccagt 120  
ttagattctg agtgctgtca cctgtgtatt acaattatac agactcttcc aagcttatag 180  
ctagagctcc tggaagctat ttatatacctg atgcaaggac aaaaaaacca caactcagga 240  
aggaattaag tcctgaatta ttggcttcat cacatccacc ctctccaccc caaaacagca 300  
caaaagaaac agtgaccaca cctgttagat ctttttgtgt aaaagaggta atgaagacct 360  
gggatgggaa caagtcattga agatctgtct ttaaaggtc cttttcaggt aaatttgtac 420  
acaccatcaa gcaacaagcc tctcatcagt tanggttagg aaaccaaggt tcaattctca 480  
ggaaatcaca atttcntttn ttactccat ataatttaca aggtgcctat atttatccnc 540  
ttccccttgc agccctttct taataaaaaaa aaaccggctc cctnccgggg gcnccaattn 600  
ccca 604

<210> 9577

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9577  
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caataggaga ggttcacaca gctaacaaag catanantgt gtgacctcaa taaggnattc 180  
aacaanaca cagccgtat ttccctctga ctgcgttccc ttaggatgct ctgatgttgg 240  
cgtcgcattc ttctaaaagt agaatcaa atctcaatcag gctgtgttct ctgccatgtg 300  
tcactctcat aatatcaaaa gccagttctca gattcttcat tgcttgggga aacatgcctt 360  
gatgtntctg agtttgccaa ctttcatcac ttgaaacccc tctgacggga tggcttccctg 420  
ggaaaaaat cctgtttggc tccatgggtc gattaccata aaanaaggct cctccacang 480  
ccnaagggtt atncaggcat ccatggggcc attcaaacac cttcncnctgt aaattttta 539

<210> 9578

<211> 520

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 9578

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ataattttta	acaacaattc	gtctcatcat	aacttaatgc	aatgtgcaaa	tgagcagccc	180
attacaatca	ttaaactaaa	tttaaggaag	tacattgtta	atagtgaacc	ncggaggaaa	240
tggatttcac	ttctattaaa	aactctatgg	tatataagca	ttacataata	atgctactta	300
accacctttt	gtctcaanaa	ttatcaccaa	agttttctgg	aaataagtcc	cataagaatt	360
aaatatttta	aagggtgaaat	gttccttatt	ttacttttag	caanatcttt	tctttttcat	420
taanaaacac	tttaataatt	ttaaagcaaa	agctgttana	atctaaatag	ctaaaactgt	480
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<210> 9579

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9579

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gtggaaaagc	agcatatctc	ccagganana	anggaaacgg	agcagggcca	atcatcaggt	120
gacagtgcag	tgctactcat	caccatcatg	aaaaactcat	gagcgtcnga	cgcgccacag	180
ggattcctga	tcaggtaata	tctgctatta	ttatgacaag	ctccatanaa	aaatgtntac	240
agcagggcag	aaagacatta	ttctttataa	ataaaaggtt	catctgtgca	atattcacat	300
tagaaaaata	tacatttgctt	gccataaacc	ttctctggat	aaaatcanac	aaatctagga	360
tctgactccn	cttcnctgtg	aaggctctgg	ctccnccgtg	acaaacgact	ccncancttc	420
taaangaact	ccttcta					437

<210> 9580

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9580

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ttccagatgc	aggaaactga	ggnataaaaa	cgtaaagtaa	cttgtatgaa	gtcaactggc	120
tcttgaatga	anaaattggg	gcttgtaagc	agtctgtcta	aatccaaagc	tctatgacct	180
cattatttca	tttaataactt	aaatagtaaa	acaaaataac	actaattagc	atctgatagc	240
ctttaaaaat	agaacacgga	ataattcatt	ttaataactg	tacattttta	agaattatat	300
actgaaatag	ttaacgtact	agttgccatt	ctttcatttc	attaaaagaa	atctcttcct	360
ctatttgcca	tttcattaac	ctactctagt	tactctggat	agttaaccat	aaaatttaac	420
ttttaataaaa	aataagtcn	taatccgaat	atcctctact	ccancccaat	ttctgaangg	480
tttaatatntt	tttaataaaaa	gcaattatcc	cggttacttg	tcgggaatgt	ntttccccc	540
cncctttcnc	tccccctcc	ac				562

<210> 9581

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9581

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ctgcactgtt	acattaaaaa	tacagtacaa	taacattcna	catgaggtag	ttcntattta	120
tgtatttttn	ccntcntaaa	taatgctgta	agctactaaa	ttcnagcaca	ctgatgcaca	180
agtgactaca	gtgtcttgaa	ttagctgagc	ttatttaaac	accttaataa	acaaaaaagt	240
tcagtgaat	aattatgtan	aaattagacc	atttacttaa	atactathtt	aggatatgct	300
taaagaatgt	cacattagaa	ctgctagcct	aattcccttt	atccccngaa	gtgaacaacg	360
acaaagactg	ccngccagat	acgttgggga	aaancatcta	cagtgtntnc	tgcttaataa	420
agttgtgttt	ataaaaataa	tttgccctgt	ttgttaaaac	aatgggttnt	anttttaaaa	480
nctacnaa						488

<210> 9582

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9582

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tnagaatacn	aaaataatct	atattaacaa	gtttgcttct	tgtacctgct	actaagtcag	120
tcattaaact	cactgcaggt	gttggaaacca	ccatatattg	ttagaacttc	cataagaatc	180
aaaggagatt	atggcataat	ctaagaagaa	aatgatctgg	ctaagtgtcca	ctgtaaacct	240
tagctacagg	cttttatttt	tacaaagaca	aaaggttttc	ccttaagttg	attcaaagcc	300
ttgaagtagg	ccacttaata	ncagactgct	gactgtcaca	gggtgtatat	ggatgcagaa	360
tgttcacag	aaacttgagg	tggttaccac	caccttataa	acatttaata	attaaggtcc	420
ataaattcng	ctctcctaag	tggncagaa	ttaggtctta	cttgttaaaa	aaaaaaaaact	480
cttccaacaa	ngtgatgcct	angtntcgaa	cngaatcncc	aaaatccctt	cctttccctt	540
ccttttaaaa	tctttccggg	cncacttttc	tntttcc			577

<210> 9583

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9583

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tctccatata	tccaatgtc	agggtccttg	tagctcggan	cccttatcca	ggtanatgaa	180
ctgctgcccc	gtgaacacta	tgtncaaagc	aatttganca	ccattctctt	ttctggcagt	240
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nattactctg	tcattgcctt	tgaatctttc	acgtctccctt	cttctgaanc	atcagttttt	360
atggaaactt	atcacacctg	tcttgtgggn	ncatcttgnt	ccatccctcc	tctcttccta	420
ttgtccgttt	tccggtattg	aattagggaa	aattttcagg	tntcccgtn	ttcccgaaag	480
aagggtgttt	ttctttcnaa	aaaaagaaaa	gtnggggnct	ctgaaaaatn	atcctcctgg	540
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<210> 9584

<211> 530

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 9584

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ccaaggctgt	ctcaggtttt	aggatgtgga	gaagccaatg	gtaggctgga	tactctctgg	120
ctacttaaag	ccttaccocat	ttaanaacat	ttgtgggata	ccactgacta	tggtcatggt	180
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tactccanag	tggaactagg	ttttgaaccc	tggttttgaa	aaacacatct	ctttgctcng	300
cataactccc	tgcatgcnaa	acatnanccc	cctgcctcaa	aagcttttaa	tgccccaatc	360
tattatccac	tgcttctgan	gtccgcagcc	tcacctgaaa	ntctgtgtcc	ctaattctct	420
gggaccaggt	ccatggggaa	gaaaaattcc	ccttctctcc	cncctggcat	gaaaggtgct	480
acancncng	catcntgaag	gttccccccc	ggttagaacc	anccanaatt		530

<210> 9585

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9585

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atctcttcct	tttaaaatth	tcttagagtt	aaaaccataa	ataagaggat	ttaaaccact	180
aaaatgacac	gtgccaacat	cttcattcag	ccagacctgg	taaattctat	caaaaactaga	240
cagttaaata	agaaccacgt	tataaaaaata	ttagccaaaa	aaagactatt	agataattct	300
gcaaactcaa	atatgaaact	gtactaaaca	aatatgtgtc	aaaggtacac	aagcataaan	360
ccacgttggg	ggttatgtct	anattaattt	taaagctcgc	tctagtggat	ttaattcaag	420
aattgtccac	gggtgtgtgt	tttactttga	actcccncca	ntcnaagaaa	aataaaatat	480
gcncaccac	ttcccccaaa	agttcttatg	gaaccggggc	tcacntgttc	acaccagaa	540
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<210> 9586

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9586

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caacctccgc	ctccagggtt	catgccattc	tcctgcctca	gcctccanag	tagctggggc	120
tacaagcgcc	cgccaccatg	cctacctaata	tttttgattt	tttagtaaan	gtgggggtta	180
actgtgttgg	ccaggatggt	cttgctctcc	tgacctgtga	tctgcccggc	tcagcctcct	240
gaagtgtctg	gattataggc	gtgagccacc	gcaccagcc	ttacgagttc	tttgtatatt	300
ttggataaca	acagttttatc	aactatgtct	tttgagata	ttttcttgca	tccttggctt	360
gtcttctcat	tctgttaaca	gggtctttca	cagaacagaa	cttttaaaat	tttaatgaaa	420
tcccagctta	tcaattatth	atttcatggg	ttgtgccttt	ggtgtttcat	gtaaaaaant	480
ctccaccata	actaataccc	aatacccaat	gtccacanat	ttccccttgt	tgtctcccag	540
gattctatna	tttgccttta	cnttgggcca	taaccctttg	aatttnatt		588

<210> 9587



<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9587  
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caacctctgc cccccgagtt caagtgattc tcctgcctca gcctcccaag tagttgagat 120  
tacaggcaac tgctactgcg cccagctaatt ttttgtattt ttagtaaana tgggggtttca 180  
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ccaaagtgct gggattacag gcgtgagcca cagcgctgt ccaatcacag gattttaaat 300  
tgtataatca gagtccaagt ctctgggttg ttgtttttat gcagattgtt tgaactgagt 360  
ctcagtttac atctaagtga anccagtact tgcctgattg tatanggtan cantatgcaa 420  
actaaatttt ggaattgtca gtaatgaaca ttatttaaca cacanggcac tgatattggg 480  
tatatttttt atgtctcccc ttgttcccta acttattccc catgccnaac ttaagtttac 540  
antaggtnc aataatatat gttgaatatt cncgccgaa tttagang 588

<210> 9588  
<211> 430  
<212> DNA  
<213> Homo sapiens

<400> 9588  
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caagaccaag aanaccacag ccaggccctg ggttcagctt canaaccatc acccgctgcc 180  
tcccccaacc cccaatctcc tgaggganga naattcctag ggacaanacc canaccctt 240  
tccttcagcc tctgcttcac caagggggcc tggcctgcgc ccaaactcct cctggcctgc 300  
ccctcaaggg tccaagttct cactctgctc ttcaggcang aaaaaggcag ggaaaaaaga 360  
attgaagaan gaaaaaggaa gcttggcccc angaaaaaaa aaaaggggga aaagaanaaa 420  
tttnnnnaaa 430

<210> 9589  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 9589  
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agtgttacac gattttcgta catataatca catccaaaac aagttctaaa atttaaattg 120  
taaacattct catatgtana aatatittaa ttggtgtatt aagttttgct aactgatcaa 180  
atttgaaga taatataaat ganaacgtct attctaaact gtgtagttag cattgtttat 240  
taattacatt tctacaatgt taaataaagt aagaggcaaa cctgtcctgt aagcatgtca 300  
aatttttagt aaaacattaa aaagaaacaa acctgttaac aaaagaatgt cttgcaataa 360  
agaacattag attttttaaaa tctattatga tacaaaaatg taaagggtaa atagcatctt 420  
tgttgacaaa gtaggaagta catggatgcc cactttattg tctganaaat gcactggaat 480  
taanaanatt ccctanccca aataattccc naactatgtt catatttctt ttaaaaaaac 540  
ctgttttaac naatcncccc c 561

<210> 9590  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 9590  
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catgtccagg ttcctctcag caacatggaa agctaagcca ttccacaaac gcacaactgt 120  
agctacacta cagcccccca tgcccagggc acagctttgt tgctaagcct gtaacaaaag 180  
accaccactc agtattttgtg taccctgcag ccaacaccac ctccctgggtc tcacagggtc 240  
actaccccaa gaggccagca caaccacgac cgagtgggta ctcaagtggcc cagacacccc 300  
ccgaacactg gcactgccac aaggccctga agggtagact gtggggcaaa gaggacaaac 360  
tctccctccc ctaagggacc cggctcactg ggccctcctc ccctgccaac cgccagcccc 420  
tgcattgccta gcagggagggt aagcaccacac tggcgtcgtg atttcnanta tcttgctaata 480  
ntnannacn 489

<210> 9591  
<211> 431  
<212> DNA  
<213> Homo sapiens

<400> 9591  
gaaantatgg ggggtgggtgg ctttttgggaa ggaaaaacgg ggggaattga aaaacttctc 60  
aagtgtccac tctgtttttg anacagtaat taagattcan aaagctcctt attaataagct 120  
cataatttgg gggggcactt canggactcc aattacaaag ttcaaaaata atcactgcac 180  
gtcccctccc ccctccccca aaaaaagaaa aaaggactaa ttttagataa cagaaatcat 240  
tctacaaaga actggattat gaggggggcaa gggantaata nccaccangt tataaggaac 300  
cctaaaacat cacanaaaan ttcactgact tangangccc aaaatgcaag ctccagtaac 360  
aacataaagc tgctcaaagc ccttctgaaa ncataaacac tgttgtcttc antgggggtn 420  
tnggggggnt g 431

<210> 9592  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 9592  
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aagcgatccc cctccttgga ctcccaaagt gctgggatta cagatgtgag ccaccgcgcc 120  
cggcttaaac attttttgtt gttgctctcc ggctttccct aaatataaga taaaatgtaa 180  
tttatttgca gatataaaat ataaagccca gctcagggcc atacgccact tttcccangg 240  
gagcangagc tcgggctctg gctgggggaga ataacttana tccgtgcaat aaataaacag 300  
tggggagggg cagtgtggac agtggtgggg gagggactga nactgggctt cccacgagaa 360  
tgacaatcaa aggcaggggt cancccccac cccacagtgg acactgacag gggttgaggt 420  
gggaccttct tcttangacc cactccanac tgtantanga ctgcaggtct gtctccttgt 480  
ctccctatct gccacacaat ccatgggccc ccttctctna ntgggcance cccg 534

<210> 9593

09629469.072800

<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 9593  
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ccaagtgcct tggtaattta catatcttct ccaaTcttt aaagaaccaa gctctaaaaa 120  
acacacgtaa agatatttaa gtcntaaaaac acacacacac acacacacac acacacacac 180  
acactcaaac tttaatgacc ttcaggaacc ataatccaat aatatattta ataggtaaga 240  
tctcattcat caatatacaa aaaaaaaaaa acaaaccaga aaacaaaaaa ctaactttga 300  
ttaanacatg tgcccttagt aagggcactt acaattagaa aggtttatcg gtagcacttt 360  
gaggtagcat attttgtaaa gtccagggct gctctgcagt ttctcctgga tacaaaangta 420  
gaaggcatca cccttgcccc ggaaaaagaa aattnaantt tctgttctcc ntggcCnttn 480  
ttncctgaaa acc 493

<210> 9594  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 9594  
aaaatttact gtttatttct ttgttacaca aaggtggtcc aagacatctt agtccatctc 60  
ctatgtcctt ttggccataa ttacacacac aataatggca agctagatta ggagtctagc 120  
tcagggtcaa gtttttccac tttaatgact atctctggag ctaaagcggc agcaccagct 180  
tgttggttct ctgcctctga ctccgacaac acttcttctt ttattttttac aggtttatta 240  
ctggcctcct cctcttcato tgaaaaantca tcganctccc attcatcato tatgtccatt 300  
tcaaatactc tcnatgaaa aanaattgan ctttacacnc agganacttt tcgaaaacca 360  
ttcccagcaa catactgtgc ttccatactt tccantaatc tccattgctt ctccaaatgc 420  
atggtacggg tgggaataca ctaccttttc nntaccctt ttaaanaatt cngtignaatt 480  
gaantcccc aaatctccct gttttttcta aaaanaaa 518

<210> 9595  
<211> 496  
<212> DNA  
<213> Homo sapiens

<400> 9595  
aaaatgtcaa taacaagttt tatttacaaa gtaatcgtcc tctcacatca catttggggt 60  
tacatgtntc actgttgtac gctggtagca tggctatttg aaaaattata atttatganc 120  
tattactcag tgggattttt gcaataaggt acttcatgaa acaaaatgga aaaaggaaaa 180  
ttaaattaaa atgcncaact aatatattat tactacagac ataatatctc tcagttgtga 240  
actaattact atgcttggaa aatgctanca tccnCntaaa tattttgggt ctattgggat 300  
acaaaatctg atttcncnaa ctttgcaaag gcacattttg gctgggcaca atggctcaag 360  
gctgtnttcc caacactttg ggaagcaaaa gcgggcggat catnaaggct cggaaatcaa 420  
aaacntcccg gctacacnat aaancntct ttctaaaaat accaaaaaat taccgccct 480  
tgttgcngga acctnt 496

<210> 9596

<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 9596  
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gcaatacact caagttatgg tataaaaata acattttgtt ttctctcttt tttctcattt 120  
tanacctaan anttttttgt tataaaacac cccagttaag aaatattgaa acataagana 180  
cttgaccatc aagggagaaa agaanccaag agtgaaaaat gctatgaaag taactccaaa 240  
cctgggcggg gcgggaggta tgangaataa ggagaaaagg aggcatnntt gnaaaggcca 300  
ggggcctgtc ntctcancag ctccgaaact tgtcntgttt gaaagtgcaa atgtctatgg 360  
attttgacca tcttgagggt gtgatctttt aaaaagctcc tgaatganga aatccattcc 420  
ttcnatgca aaataactgg ctttctgggt ggaagtttgt ttgggtctggg gtnttctccc 480  
catctnctcc tctcccaccc caccnnttcc caaaaaaagt ncaaanggtt cnttcccnc 540  
tttcct 547

<210> 9597  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 9597  
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acggaaaata tctaaaacat gaaacctttc ttaacaaaag catcatagtc tatttttggtg 120  
tgactgttca ttacctacag accccaaaata gttcttcctc ttttgaagggt tacacttgta 180  
aatctacact cttgggttcaa tttatcactg tccaaataag gtgganaagc tgttcaaact 240  
gatccacaga atgcagtatg cctggaanag gcaaaacaag tattttcaag acataacagg 300  
ccattacatc ttaatatgtc gccccaaatt caaatatatt gttgacaata acaaaatacag 360  
atgaagacat tttgtgtnaa gctcaaacct ttagcatcta acaagtgcac tctagtcca 420  
gcatctatga aaanatnact cctccattaa caaatcacaca tgagttantg ccncccccc 480  
cgcttccata aancctctctg gaactgttat taccttatgc caatcttgga aaaactgctc 540  
cncntctcat tantccacca nctccagctc c 571

<210> 9598  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 9598  
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ccgcctcctg ggttcaagtg antatcctgc ctcagcctcc cgaatagctg ggattacagg 120  
cgccagccac catgcccggn taattttcat gttttcagtg gaaanagggt ttcaccatgt 180  
tggtcaggat ggtccccaac tcctgacctc aggtgatcca ccgcctcgg cctcccaaan 240  
tgctgggatt atangtgtna nccacntgt ctggcctatt gataattttt aataagggtt 300  
cacccaaagg gtggtcanaa aattanaaac cccctttctc tgggctgaac ctggaaaatg 360  
ggccataact gccaccatgt natatcctag caaccctgaa tcccttccta atttancaac 420  
acttcanctc ctaactgcat aactcttaat aattnaaaca gttgggttgt gccanctccc 480  
nctctgggtg tgananggtg gaaatctaata gaactgna 518

<210> 9599  
<211> 567  
<212> DNA  
<213> Homo sapiens

<400> 9599  
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aaactgctct gccatgtctg tttgtatttc ctgaatcctg agccctcaaa aacttgcttt 180  
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atgtcctttt ctctgcac cctctcanaaa acacttaata acatctaagt ttattttcta 300  
aggatcaana aaacaaagtt ttctcatgaa ttgctgaatg atantttttc ttgccaaggg 360  
ctaaaaattc aggatacccc cnaatcaaat tttcctaaaa caaatatat tacagggtgat 420  
ttgctgcaat catgaaacac anccttccga aanttcatat tccatctaata tngttcgaaa 480  
catctaaaat gaatccattt cnttacaaaa agttggttgt gcaatccctt ccaaaaaaac 540  
caattnttaa aaaatcctta antttat 567

<210> 9600  
<211> 476  
<212> DNA  
<213> Homo sapiens

<400> 9600  
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aacagttcac aagtgtatat atattgtttc ctggataaca caccgaagag tcaaaagtga 120  
taagaagcac atttagagca atatccctag aattaaaatt aattctagaa caatgccaaa 180  
ganccaaaat tatattactg tgcttaacaa tgcaaaaagt gtaggttttc tccattcagt 240  
tgggcattga ttatatatta cccatatagt atttcaatca gaatcaaaat tttcanatgc 300  
attaccacta ataacgggaa aagtttctta accttgttcc cctccgntc taagttggta 360  
caaagtgttct ttcattgttg tgaaaaaata tgggaaattc ncccttctat gccangntac 420  
tgcaattact gctgatggct tatctgatcc tccnccaagg ntgttaataa tganna 476

<210> 9601  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 9601  
ccagtttcaa agaaatttaa ttattattta cacagttaag gaacagggtga tacattttca 60  
tttgtagtaa actgatcttt ctgtaataaa atanattttc aattcagtg atgtcattat 120  
tactgctaag gaaatcttag cccttgctct ccttaaagga atctttattt aatttactgt 180  
aattattgct gtgtagtcac tacttttggt aattttctca atcacttaaa tgatgggtct 240  
gttttccact tagtaggtat acanancctt gacgttccta ttatttccta tataaganaa 300  
atttaaaaca ttttttggtc tttctgtctt aggggaataa aaaaacacta accacacatt 360  
tggttaaaact gcttaggaga agacataata aagatcccca atctatactt aacagccata 420  
aacctgagtt acaggctcag ttactccaaa taaataattc ttataggtac ttaattaatt 480  
aggcctgggt atctaaataa caaaataatn tccccaataa ataaaaagaa ggggccccat 540

accttgtttg ccctttggtg acacctaagg acctgccatt cctc 584

<210> 9602  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 9602  
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angaccctc tttttctatt gtttgaata ntttcagaan gaatggtacc agctcctctt 120  
tgtacctgtg gcanaatttg gctgtgaatc catctggtcc tgggcttttt ttggttggta 180  
ggctattaat tactgcctca atttcagaaa aatatggaat gcttcacgaa tttgtgtgtc 240  
atcctcgcac aggggtcatg ctaatcttct ctataagggtt ccaatttttag tgtatgtgct 300  
gctgaagtga gcacgggtct ataattttta aacgcggggc ttgtgctgca aggggtggtg 360  
tcagggtcca ccaagcagtt tcatcanggc ttaacttcc cnnccccnaa atnaaaaacc 420  
aaaatnaaat gccctactta aaaatactta cttaattata ccttaaaaat taaacactta 480  
nc 482

<210> 9603  
<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 9603  
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gattancctt gangcttcgg anggtctctt ttgctgctgc agatttgga atcctgtaac 120  
ttcgaccaac acctttaaat ttcccccttc ctactacttc cacagtgcact ctgaccttcc 180  
cgtcgttaagt tctctcagcc gggctaaatt tggcagtttc tggttccatt tcaagcaatt 240  
ctcgcacagg ggaacggggt acatttgcag aaaacttttc tattagtggc cgcacatggt 300  
gatantacac ctgccanact gtctccagtg acatcccact atccatgtaa atggcaccag 360  
caagcgactc aaaaatatcc cccatggcct ttggaaactc aatatcctct tctttctctt 420  
catcctcctc anatctccta agctcagaat ccattccttg catttcattc ttctcaagct 480  
gaaatgcacn aaatctccat gacttgggaan aactcaggaa aaaaaacttt gaattattgt 540  
tgtatcgact ttacnccacc nanccaaaan tgttttttta cagggncaaa cccg 594

<210> 9604  
<211> 409  
<212> DNA  
<213> Homo sapiens

<400> 9604  
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cactacagcc ttgatcttct gggctcagct atcctccac ctcagcctct caagtagctg 120  
ggactacggt gcatgccacc acaccttgct aatttctgta tttttttagt ggacagagtt 180  
tggccatgtt acccaggctg gtctccaatg cctggggtca agcaatcctc caccttggcc 240  
tctcaaaatg ctggaattac aggcattgagc cacagtgtct gactacaaat tgtaataact 300  
taaaaattct ctcaatatta gagtaaagtc actcaatcat gattaataaa tgagtnaanc 360  
cacacctaaa caatgtatga tctnagaact cnttngtng ganaaaatc 409

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<210> 9605  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9605  
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aatacaagct acgtacttta ttgtgtgagc tactaaacta taatctgttc caactctaga 120  
gggaaaactg gttatgttgg agttatagag aagtgggtgca aaggcaccat cctaaaggaa 180  
tttcaacatt ccctttataa tctatgactt ttgctttatc tatgatctac aacactaacc 240  
tagactatat aatgcccttg ggccctacata aaatctgccca ttcatctttt tctaattata 300  
gtagttgcta tgtcactact actaatatag taatttgata gcatctagca ccacagagtg 360  
tgactaatat tgactagatg ctagcataca cacaagtttc tccagttgca tttggggaaa 420  
aaaggcagga gtagatggat ataaaacaaa agatctgtta tttgttataa aaaaaacaca 480  
atcttttaca gtccancaat gactttatct tttntccaaa aattttacat tttcncccaa 540  
ntttatcttt ntaactnct nccctgccct taaataatca ccccttctat tac 593

<210> 9606  
<211> 422  
<212> DNA  
<213> Homo sapiens

<400> 9606  
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gcctcagcct cccaagtgnn tgggattaca ggcatgcacc accacactca gctaattttt 180  
gtatttttaa taaaaacggg gtttcaccac attggccagg ctggtctcaa actcctgacc 240  
tcaggtgatc cgcccgccct ggccctcccaa agtgctggga ttacaggcgt gagccaccac 300  
acccagccaa catacanaat tctagcgcta ttcacttgcc ccaaatttgc aacttctaac 360  
ttgctganan ttagacaana nataagtnat atgtgaatca ntgatatggg tgggtganata 420  
aa 422

<210> 9607  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 9607  
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cttcaattct ataaacaaaa atatctcaag aaagtatgtt acacaatagt acatataagt 120  
aatagtttgg cagaatttta aactctagta gtcatatccc ccaaaaaaca aattttaaaa 180  
ttcaaaaata acagttttat ttaacatag ttacacctta acatttataa tatcatgctc 240  
tagttaaata tttcatcaac aacactgtat acaaataaaa tattacataa aatatattta 300  
agaaaatgtt ttggtctttg atctgaacaa taaataaaaa cacaggcctt ctacatagac 360  
aggggaaaca gttactactc aataataatc ttggtataag cagcatgntg aaaaatggc 420  
aataacaaat tcctggaatt ttaactgaca aaccatctat gccaaaantc tgtaactnca 480  
cctttccacc cagnttcaaa atacatatgc ctncgccgtc catntggaaa atccctaccn 540

008240" 69462960

caanatgggtt gttac

555

<210> 9608

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9608

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tacaagaacc	gtataaaaaa	agtcactaaa	acactacact	atgaaggtgt	ccaacgctta	180
cagtcagact	ttttccaacc	cgttacttgc	cttgtagcca	caggaaaact	ctccaaaatt	240
gaaaagacaa	tcttgccaca	accctcccc	cgcccaacac	ctgggatggc	tcgatatacta	300
gacttccaat	aattattgca	atgatataat	gcaatacata	cctggtaaag	tatcttttat	360
gtgatgtgtt	acagttttta	agccagttaa	aatatgcagc	cttcagataa	aatgtnatcc	420
tcgaaaaatt	ttcatatttg	cacagtttaa	atgtntctana	tgcataattt	ttccnattcc	480
aatttttccg	tgttattaat	tanaaattgg	nttcctnaat	anaaat		526

<210> 9609

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9609

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aaagaaaatg	actaaaacaa	aactttacaa	acatcttcat	gtttgtaatg	tattaatgca	180
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ccttctatTT	aatgcatttc	ctTTTTTTTT	atttatagag	atggagtctc	gctatgttgc	300
ccaggctggT	cttgaactca	tgagctcaag	caatcctccc	acctcggcct	cccaaagtgc	360
tgggattacc	ggtgtgagcc	actgcaactg	gccttaatgc	atttactttt	ataanccttc	420
tctgtttana	antacacnct	accaantaca	tacatgctgg	cattttacca	tgaaaatttt	480
antttncgtc	tcaaactaat	gactgccttt	ttaccatac	ttataccntn	ttataccttc	540
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<210> 9610

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9610

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canaaccggg	ggcagtctgt	tgangtctct	atatattcag	cagggacccc	atcccttcct	180
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cttccccatc	cccanggctg	ggggcttcag	ggacgctcca	tcaaccacaa	ggagcagctc	300
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cnnantgtan	caattcctaa	ga				382

008240" 69462960



<210> 9611  
<211> 527  
<212> DNA  
<213> Homo sapiens

<400> 9611  
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aacagantat agaatgtct agcaatagtc aaataacttg atcttttaat acaataaacc 120  
acatgaacac ctaatatata ggtttcatct gaatacatat ttattagata aatattagag 180  
gttgtcacat catctaacta catacagctt tgcaagacta gaaatcacia ttagtttttt 240  
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ttctgtggga gttacttcag gctgcactgg tgggtgtgtt tatgtgtgta cgtgtgaatc 360  
acctgtgatc atgatataca aaattataca aagtatgaat ttggttacaa ttttctcctg 420  
aaacccccgt tcctttccat tattccttan cccctaataa taccnagggt gcaggacaat 480  
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<210> 9612  
<211> 604  
<212> DNA  
<213> Homo sapiens

<400> 9612  
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acattgcata caagtacatg cgtgcacaca tgcagacaca cacacagaca cacatgttta 180  
agcaacaaat tcaaagaagg gtgtcnacac aattaaaatc cataatgtta aacaataact 240  
gtgcttgta gttatacaag gtaatttgca ttgatataa acttaactta cattagtact 300  
ttttagaaac taaaattatt ccaaacgtat taaatgctta gaaaattcat ttctttccta 360  
aacagattag aaccataatt caatatgtta acctttatat agaattatat gtaactcaaa 420  
ttatattcaa ttaattcnaa tatataattt aaatacngaa aaaagaaaac tacctgatgt 480  
gttnnanga tgttttattt cctccaaaaa agaaactccg ccagacaatg atttttatcc 540  
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ttcn 604

<210> 9613  
<211> 597  
<212> DNA  
<213> Homo sapiens

<400> 9613  
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aagttctctt tcacaanaca caagcatcgg taacttgaca aaaaatgtta gcttcanatt 120  
tttatgancc tttaaaaatt gctgccagac tcnagattta aaaaaagaag gaaaatccca 180  
tatctgaana taaatttgct aattctggat aaacgccatg tgtctcagta catttctggc 240  
acttacctac acatctgcaa gatgggaaat catattgagt cttgacaggt gtatccaata 300  
aattttttat aggagtatct agtaatttgg aaggtgactc tataaaaatta ttgagaacag 360  
aagcagctgt tcttttggtt ggtgtctttt ctgaagaant tgtttgctgc tctaaagctg 420

gggtgtggct atcaagttct gcagcaatgg tttgtctant caaaactgtg actggcccga 480  
cattccactt ttacttgctc cgtgatttga aaaataaaaa cctatgggtca atacnacttg 540  
gcttaactgc tccaanccgc ccccnngccc caanaaacc cttgccgcat acccactn 597

<210> 9614

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9614

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acaggcatgc gccaccatgc ccggctaact tttgtatttt tagtaaaaaat ggggtttcac 180  
tatgttggcc aggatgggtc cgatctcctg acctcgtgat ccgcccacct cggcctccca 240  
aagtgtggg attacaggca tganccaccg cgcctggcca atatacagt tttataagtc 300  
tacagttagta natantgatg tcctaggctt tcacattcac taaccactca ctgattcacc 360  
canatccaca gccactttcc atcctgcaag ctccattcat ggtaagtgcc ttatacangt 420  
gttncagggtg ttccattttt ttccctcctt aataataata attattatta ttttgaaaat 480  
ngggtctcnc tcttttccn anctggaatt caaaagatga tctcactcnc ancaaccttt 540  
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<210> 9615

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9615

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gaaaagacaa gtttaaagta aacacatatt gccaatcata tcacatttat acatggcttg 180  
attgatattt agcacagcat aaactgagtg agttaccaga aataaataat atatgttaat 240  
ccaatttaag ataccaaaca gatcatatgg tacataacat cctgtnagan ttgtggcttt 300  
atgtttacng aaagtcnatg cagttccngt ncaanaaaaa gggcggtagc 350

<210> 9616

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9616

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tttagtctct gatgttacag attcagatga ttcttatagg ttatttaaag aattcatttt 120  
atcattttat aagcacccta aatttataaa gctaaccaca aaagttgcct gtacattttt 180  
tctataccta gtttcttgca aattctacaa tctgacttaa gggataatta acggggaata 240  
cagtgtatta ctagacatga aagtagtcct atccttagaa agctgtagtt gaatatacca 300  
aaataagtca gttgaanaaa tctgtgattc tagtagtaat accatatcac ttaggaccat 360  
caaaaaaatg tgtnnctttc tccaaacgac aactgatgcc tttctttatg taagcttttc 420  
ccgtgttttg gnacatatc cattgcattt caataaaaaat gtttatgcnt tatcnntaaa 480

taaaaaaatt ctatttaaac tatnncngtt cctaattggct ccnatatttt ccctggaaaa 540  
tanggaattt c 551

<210> 9617  
<211> 600  
<212> DNA  
<213> Homo sapiens

<400> 9617  
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aaataagaaa acaactaatt tatttgaaaa aaaaacaaat tctgtacatg caggcttggc 180  
ttgattgacc ataattgtatt tcagcaaaaa aaatttagat acaccacaca taataaagct 240  
ttctatgtac acagtaaata gtaaataact ttgctaaatg gccagacatt tgaaaaaatg 300  
aaaacacagt tgtaaaacaa agtatgtaag aatattgtga ccttatttaa ctgtacaaaa 360  
agcaatcatt ctctccagcc ttccatcttc acttacattt ttttaacaa gattaanccc 420  
cnaattgaag ggattaaatc ctttctccct aatgccncgg gaatatnaaa ttcnctttca 480  
antctttaac tttttacaaa ggaaccaaac ncttaaaggg aaatngtggg aaacaaaaaa 540  
tttcaatcct gtgccatccc ccaaattccgc nggggaaaaat tcccantccc taccattccc 600

<210> 9618  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 9618  
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tgcaccacca caccagcta attttggtat tttttggtgg agatgggatc cagctaaatt 180  
gcacaggctg gtcttgaact ccaggcctca agcgcttctc ctgccttggc ctcccaaaagt 240  
gctgggatga cagggtgtgag ccaccgcacc cagccagagg gctccttcta aaatggttgt 300  
catctgctcc cactcctgcc ctcccagang tgcctanaaa agtnaanaan naagctccac 360  
tgaagaatgc ncca 374

<210> 9619  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 9619  
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tttgttacat angtatacat gtgccatggt ggtttgctgc acctgtcaac catctacatt 120  
aggtatttct ctgaatgcta tccctccctt tgccccacc cagcaacagg ccctgggtgtg 180  
tgatcttccc ctccctgtgt ccatgtgttc tcattgttca actcccactt ataagtgaga 240  
acatgcagcg tttggttttc tgttcctgtg ttagtttgct ganantgatg gtttccaact 300  
tcatccatgt ccctgcaaag gacaanaact catccttttt tatggctgca taatattcca 360  
tggtgtatat gtgccacatt ttctttatcc agtttatcat tgataaactg gttggnttcc 420  
aattcttgtt attgcaaata atgccgttat aaacatactt tncctgtttt cttaaaaataa 480

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aaataattaa aacccttngg gttataccca ttannggaan ggcgggntcn aaagggaatc 540  
ccgg 544

<210> 9620

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9620

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aacccggttt	gggtgtnaaa	ctggggctgg	gctccccang	tggaacctgc	tcttaaaaaac	180
acaccanaaa	gctgggaang	ctctattggg	ggccgcttgc	acacgcaaca	gtacagtttt	240
acttttttcc	tggacagtgc	agacagtgcc	atcagctcta	gccttgagg	agggcacagt	300
cattcttcan	acttgcactc	ctggctctgg	tgctgcatcc	tggaaggac	gcgctcgtn	360
aacancangt	ntgcgctgga	ggacangacc	tcctgcaggc	tggccttgcg	gacagtgtct	420
cgganaccnc	a					431

<210> 9621

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9621

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aaataatgtg	agcgaanaat	aggacttgct	tctgttttca	cttataat	tcaaaagtca	120
tgaagtacta	ggcaaagttt	ccaaaatgct	tctacttaat	ttaacctgat	tctccccgcc	180
acaccagcaa	aatgcttttt	atgttgggtac	agtaagtttg	caaggtaatg	atgaataacct	240
gaattgcaga	aattaggcct	aaactctgat	gacccttaat	gtaaaccaca	ttttaacgtg	300
ttgaggggtca	ttatttgtat	ggcacaggta	tatcnggaaa	naagatggat	atactacccc	360
tgggaagcca	ttcagtctct	cccttacaaa	tgccctcctat	cacatgacag	gcattttcaa	420
anccctgttt	tncccttgct	tcaaatnctc	atgggtttata	tttnccttt	tgtggggcanc	480
ccnaatgtn	tttttacc					498

<210> 9622

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9622

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gacaagtttt	gatacatagg	aaaacccttc	cgtccacctc	tctttatgct	aatgaatca	120
tcacaataat	ttttacaatt	tttaaaacaa	tacacagctt	tcttgggctg	aagcaattgc	180
aagaacatat	tggtactgggt	atattacagc	tacttacaat	gtttttaaga	acagcaatgg	240
agaaaaataa	gttattttaaa	tattgatttc	atatacagaa	agtgcaatgt	tgtagttgt	300
tatataactt	gctcgacagt	ttcttttctc	tatcaatttt	aatcaagat	aacttggact	360
ccaactatta	tatttttttc	tgaaaataat	acagtacaca	catggcanca	ntgacttggc	420
aanttgacct	tttttgctgc	agttatgaaa	gccaactttt	ctatttcngg	aactgattnc	480

cantaaatta ttattttcca tttccccct ncctggggg ttcangaaaa aaaaaagggc 540  
cncatgaata 549

<210> 9623  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 9623  
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ctgaacaaat tcaccttcca atgtgcatac agaaagtggg gatgtgaana cagcaaggtg 120  
ggtganacac aagttatgaa gtaatganta ccttctcctc gtggttttta ctttaaaagc 180  
acatgctaen anctggatgc agtggctcac gcctgtactc tcagcacttt gggaggccaa 240  
ggcgggcana tcacttgagg tcaggagttc cagaccagcc tggccaacat agtgaaaccc 300  
cgtctctacc aaaaatacaa aaattanccg tgtgtngtgg tgcgtgcctg taatcccanc 360  
cactcaggaa gctgaagcat gaaaacgctt aaaccaccca ggcanaagtt gcantgatcc 420  
aaaatcgcag cnttggactc caccctggac aacanaacaa aactaccccn ccataaatat 480  
ttgttgggtg aaattaaaaa ttgaagggtga attgttaaaa atccnctngg ncccccccc 540  
cntnaaaaac cccccacnca aaaccccccc gaacttaanc cttccaacat ccggtgaa 598

<210> 9624  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 9624  
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caacctctgc ctcttgagtt ccagcgatct cctgcctcag cctcccgagt agctgggatt 120  
acaggtgtgc accagcatgc ctggctaatt tttgtatttt tagtagagat ggagtttcac 180  
catgttggcc aggctgttct caaaactcctg atctcaggtg atctgcccgt ctacgcctcc 240  
caaagtgtctg ggattacagg cgtaagccac tgcgcctggc ccaatgtgtg gttgttatta 300  
gctatgccct ttaccgaact ccttttcttg acctcctata cctacacctg ttgtaaagaa 360  
acaaatacaa aacaggattt cagcaaaaaca ctaaaagaag agcgttctag ttttttaaaa 420  
aatttaantt ncttgtnggc acataacaat gaactcntgn ttncnc 466

<210> 9625  
<211> 500  
<212> DNA  
<213> Homo sapiens

<400> 9625  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

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nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
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<210> 9626  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 9626  
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tgatattact attaaatagc tatgagctag gctttccgta aagtatcccc tggatggcaa 180  
accagtaaga anagcttata aacttcactt cttctgggtt acaatctctt atctttctgg 240  
aacggtaaag cacaatgggt gaaattagac cccttaaaaa aaaatccaat gctgtatatt 300  
tgctttatca taacatgtat ccctacatgg cacttctcaa naatggcatg gcagggangg 360  
atgtnatata ttaagcatgt tttctcatta tgcacttgta cactgtgcat tggtttatac 420  
ttaatttggt acattttccc taaaataatt attctctgct ccttcctcac aacaatccca 480  
attccccccc ncccccnct attatgaaga agcttaattg gacnaaaana attttngagg 540  
aaggtatacc aggaagaaca atnttttgaa tggggatccc tttt 584

<210> 9627  
<211> 573  
<212> DNA  
<213> Homo sapiens

<400> 9627  
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atgaaaacag tatcttaata caagcttttg ttaaacaana ttttaaaatt ttaaaattan 180  
aaaacgttaa nattaaactc tticaaaggt tcaaacaaaa aaacaacctg tacaatctcc 240  
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gactgacaga ancagcactt aaaggcttca tgaatctatt ttccaaaaaa gtatgctttc 360  
agtaaaacat tttaccattt tatctaacta tgcactgaca tttttgttct ncctgaaaag 420  
gggatttatg ctaacactgt atttttaatg taaaaatata cttttaaaaa tattttaact 480  
tcctgagtga cttatccncc aatgggattt aatgaacaat ttctaaattt aaaaagaaaa 540  
atttntntta tccacnctt tttttccact agg 573

<210> 9628  
<211> 351  
<212> DNA  
<213> Homo sapiens

<400> 9628  
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acaacccaag ggtgggttgaa tcaaactcag ggaattagag gagcatcagc caatgcaagc 120  
aggtctatat aaaatacaca tcatttataa atgcacacag cagaaagcac agtggcccca 180  
gaggaccagg caggggggaca acagagagaa acagagcact atctggaggg acaggcacac 240  
ccgcaacact caaagccctg ggccccaant gcacctcaa antcacctac gctgcancat 300

ggctcttgcc ctttctganc ctgggtntac ctnaaaacca atttcaccan c 351

<210> 9629

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9629

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anatttgcac	tcttgggcta	agtgaccctc	ctacttcagc	cgccccagca	gctgggatta	120
tagtagtgcg	ccaccctgcc	tggtttaatt	tcagttttct	taaaaaaaaa	aaacaaaaaa	180
aactagcatg	cctgtcattt	tattttgcct	actggaaacc	accagttaaa	acaagaanaa	240
aacaggaaac	ctccagttaa	nagggtttta	naaaagtgtg	tttcanaaaa	aaaaattgta	300
cattcaaaan	agtggttggt	tcctttaaat	tgttactgat	aacctacaat	ctcactttag	360
caacatatct	gtgtgtattt	atgtacgtga	atanacntgt	gtatgtatgt	atnatgttat	420
gcacattttc	tcaatgatga	aaaatttttg	ttctctgaaa	aaggacttta	ctggcgaaaa	480
tccaaancct	tatgaacnaa	aatgggttaa	naantttaaa	ttggcaaaat	aacttgaaat	540
aaacaaaatt	tnggcnacaa	naaaaaaatg	gcctttttta	a		581

<210> 9630

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9630

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
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<210> 9631

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9631

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tggattacag	gagtgcgcca	ccatgcccgg	ctaaattttg	tgtttttagt	agagacaggg	180
tttcaccacg	ttggccaggc	tggctctgaa	ctcctgacct	cagggtgatcc	gccacacctg	240
gcctcccaaa	gtgctgggat	tacaggtgtg	agccaccatg	cccagccaat	ttctttcttt	300

taaagctcta	ttaagtcatt	agtataaagt	taaaaaggca	ctcaaaaagc	aatggatatt	360
gcctgcttta	tattgtatat	taaaataagt	gatagtagca	tttcattatt	actgtatccc	420
tgtcagttat	gatttctgta	ttcattatgt	acttttttac	tgaaagattt	taaaagttgg	480
cacaattata	aactgcacta	gtgctttaat	ataaaagaga	gatgggtctg	ccaccagtta	540
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<210> 9632

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9632

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gggcgccong	ctaatttttg	tnnttttagt	aaaaaaagg	tctcaccgtg	ttggncaagc	180
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ggattacagg	cctganccac	cgtgcccggc	catgttgctt	ttataattga	natatttcat	300
ttgttttggg	ggttaggcaa	atttaatttg	ccattcctca	aactcagtaa	cttcaaatat	360
aaacaatgcc	taaaatgaat	atggttcctc	attatttcta	tcaaactact	acaaatactg	420
aanaatcccc	aaattatttt	ccncagaagc	aaaaaaacan	ttcaagggtt	gaaaatctcc	480
atattaataa	ccccgggaaa	ttccaatggc	cttcttattt	ccagggttat	gccatntgaa	540
acccaattcc	ctntnttttg	tnccccaaaa	tttcttcant	ccnttttccc		590

<210> 9633

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9633

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tatattattc	tccccaaaag	ctagctgctt	ccaaacttga	tttgatattt	tgcatgtttt	180
ccctacgttg	cttggttaaat	atatttgctt	ctcctttctg	caatcgacgt	ctgacagctg	240
atttttgctg	ttttgtcaac	tgacgtttca	ccttctgttt	caccagttct	ggaggaattg	300
ttgaacagct	tacagcactg	cctgaagaag	tgatactcag	agttcttggt	ctatactgat	360
tcatagctcc	cacattttct	tcatctctga	aaggcctgaa	ttctctattt	aatgacaaca	420
aggcaattag	atgagggcat	catcttcata	ctcgtcagaa	gccacagggg	antcctcctg	480
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<210> 9634

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9634

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agtttccacc	tacttaagag	agatgcctca	aacaaattaa	ctttattttc	agacaacagg	180



tccaagaaga	cttcacagct	caatcatgac	gaacatgtgg	ctgtttcctc	acagccagga	240
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tgtgaagaac	tgatgagaca	gaattcctga	gaagggaaca	tttaggtinat	ctgggataaa	360
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nccaaacaga	ctancagaaa	aacaagaacc	ntcantttct	tcaggataaa	caaaaaggcc	480
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<210> 9635  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 9635						
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ggatgaanca	ttcatggaan	gcccattctt	ctgggttttc	cantctggtt	agtgggcagt	240
tgttcaccca	cagaacacag	gggtctgtgc	acacttgagc	cttgggcctg	aggactgacc	300
atgccagggg	acttccattc	cagggagacc	ccttcagggt	aaggagaact	gancatttgc	360
ttgcatctcg	ctgtcanctg	gaatgancgc	actgggaagt	ncaaaaaacc	catngctggg	420
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<210> 9636  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<400> 9636						
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antgaggcac	aaaaagcana	agtgangcct	gcaaacagca	gggtggctac	agctcgtgtc	180
tggcttattg	aaacagantt	tgaagtgtcg	ctgcctgtga	ctgattcaag	antaagttac	240
agtgtccaca	catccaatta	gatgactgtt	cactacgtat	ggagaaacct	ataggctaaa	300
cttacagtat	gtaaggangc	ggcttcaggc	tacagctgaa	ntaatgtgtc	cttacagttg	360
gaaccaggag	ttcatgggaa	ttcttcatca	tccagtggtc	tgtaaatgtt	cccatgctga	420
antantctgt	ccttacagtg	tnaaaccaag	ggttcatggg	aattctcnc	atccagtaat	480
ctttaatgtt	gcccctccta	attattnttc	ctaccgggtg	aaccagggtt	cttgggaatc	540
ccccccccc	ccgnccgtta	tntttccccc	ctnntttntt	ccccgttccc	tttt	594

<210> 9637  
 <211> 588  
 <212> DNA  
 <213> Homo sapiens

<400> 9637						
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agttatttct	tgtcttctgg	tagcttttga	atttgtttgc	tcttgcttct	ctagttcttt	180
taatttgat	gttaggggtg	tgactttana	tctttcctgc	tttctcctgt	gggcatttag	240
tgctatacat	ttctctccaa	acattgcttt	agctgtgtcc	cacanattct	ggtacattgt	300
gtctttgttc	tcattgggtt	caaaaaactt	atttatttct	gccttaattt	cgttatttac	360
ccagtaatca	ttcangaaca	aggttgttca	gtttccatgt	tanttggtcg	gttttgaata	420
atttncctaa	tcctgaattc	taatttgatt	gcactgtggt	ctgaaaaant	gttgtaattt	480
ccgttctttg	cattccgggtg	tgtattgttt	acttccaatt	aatttggtca	atttnaaaan	540
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<210> 9638

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9638

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gagctgtggg	agtatataca	tcattgaata	acagacactc	cagaaatcaa	cagatgtaca	180
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ccccaaanac	acaaagttgc	tgcttatctg	ggtccagggt	cagtacaatt	aaactcaaatt	480
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<210> 9639

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9639

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gtcttgtccc	taagtgaana	antcattaaa	gctgtttatg	taaagcctgt	gtcttggaga	180
cagggtgtta	tctctttatc	agtcacatgc	attgggtatg	aaatggccga	ttggattggc	240
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aggggctcca	canctggact	gaccctgaga	aagctccacc	tcagancagc	acangggagg	360
agatgaggcc	ccnctgggtt	ccctggggcc	aggcctcntg	tctaattgca	naaacagcct	420
gagggacaga	nccatggaaa	actnaagaaa	aggcangctt	gtccattcca	acttccatct	480
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<210> 9640

<211> 380

<212> DNA

<213> Homo sapiens

<400> 9640

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agaactctgg	tgcagtcccc	aatcactgca	gctttactgt	cagtcagtgg	agctgcaatc	180
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gtgtgatgag	gtctaccagg	ttgcctttag	gaggagtcnt	gctgtcngga	aagaaaattta	300
ctaagggtgc	taanaactga	nttctttgag	catagggtgn	atccacatca	gaaaaanccn	360
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<210> 9641

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9641

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acccaaacat	tgtttttaca	atacctgtag	tttaaaaaaa	caaaaaaaaaa	aaaccaatcc	180
cccaaaccgc	cccaactcct	ccccacaaaag	aaacaatggg	aggaatagac	caaaaaactca	240
aatatgggtcc	ttacagtaca	taagaataaaa	aacagttaa	tataaaacttc	taagtgttaa	300
ctctatacta	aaccactttg	cattagaaaa	attataaaat	aggatgggtt	tagtccactt	360
tatnttttaa	aataatcaat	tttaatgctt	antttcccca	aaacaggagc	ttaaaaancca	420
atttgttact	aggacatttt	gtcgggatac	antctagggg	aaaggacata	acaaanccna	480
naaacaanat	agggacgcac	taatggaaac	ccn			513

<210> 9642

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9642

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tagctacttt	atccttatct	aggacagatt	ccaagcatag	gcagctacag	tctgaaaaga	180
attattataa	gctagaattt	ttctaagaaa	aanatttggt	ctcaggaata	cgaaaataga	240
tncaaggaa	tgaccagac	atgacaataa	gtctaacaaa	gttaacacta	gtaataatgt	300
gtcagataaa	aggtagaact	gagctaaaaa	ctcnaacttt	aaaaatgttc	agcaaatcaa	360
taccnngaag	ttaaagantc	ttgaatgttc	tagttcattc	ttctctccat	tttaggtact	420
ctcttaatgg	catttttatg	gttagttgaa	ttacctcaga	antgncgtg	nccctcctgg	480
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<210> 9643

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9643

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gtacaaacca	tatacatncc	accatttttc	agtacagtac	tcattacatg	tgtcaacact	120
ttattataag	ataggtttta	tgtagatga	taacaccagc	atcttgctca	ataaattgaa	180
gccagctttt	tcaacagaga	acattattag	aatgaaacta	gatgcaagaa	caggaaagta	240
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aacctttaag	tgaaacaagt	ctntccaacc	atcttcccat	aaaacctant	ttctatggga	480
aaacaatcaa	ttaagcctaa	nccccncct	tttanatttt	tnttcnttta	taaaa	535

<210> 9644

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9644

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gncttttaat	aaggtcatta	tgaaatctga	atttctatta	atactctggt	gcattcattt	180
catctgcaaa	agcaactggc	acaaccactc	cttgccgggtg	cagctctcgg	anaacatcta	240
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tccaaaaaat	ttggttaacc	ttccggtaaa	aatcccccca	aactccnaaa	atncaaaaaa	540
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<210> 9645

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9645

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tctgatttca	attggccaaa	atccaaccct	tgagtttgga	cattcaanac	caaaatgaac	180
acgttacttg	ccctttctat	gantanaacat	catgggtgtc	ctttgaaaaa	tcagcaggcc	240
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tccagcacct	aatcaggcaa	gtnacttcac	tcatgaaaaa	caggacacct	ctataccaag	360
gctgccaccc	acagatatct	cctgggtgct	gctctataac	aatacctgct	tttgaacaaa	420
cntggtatct	nctatttggtg	gattataaatt	tctcccgcca	gttttinctca	aaactcncag	480
gaaaaattaa	aaatttgga	aaaaanctta	ccnctttgac	ccccnaaaaa	ataattccaa	540
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<210> 9646

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9646  
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tggtcaactc caccacactt cactctcaaa ngaaaagcac aggggggaaag aaatgagtga 180  
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ataaaaagca aggccttgctc tgatctttcc cagttctcan antccancag gccgctgtgc 300  
tgacacata catggatcca ccaacataca tcantccttc tgtgttctct cctgcatggt 360  
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<210> 9647  
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<212> DNA  
<213> Homo sapiens

<400> 9647  
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gtagtaatan aaatacgggtg aggccctgaa actggcctgg tgagcganga aaggccgctg 180  
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gcggtgcca cctcttgaca caaaagccgg atgggcangt ttctccatg gccaaagccgt 300  
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ncggtgaaaa tgtcntcccc aaaaaattcg ttctccctaa acccggtggg gcaaccanc 420  
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nttcccttcc tcccttttgg tnccttng 508

<210> 9648  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 9648  
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cgtgggcccgg ggaaggccca aggctgcanc acatctacac nanggtcag caaaacttcc 180  
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cc 542

<210> 9649  
<211> 604  
<212> DNA  
<213> Homo sapiens

<400> 9649

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cgcctcaatc	tgaangaatg	gggagatctc	ccttcttcac	cctcctagct	aatattctgg	420
tgcacgttat	atttatatat	atttataaac	ctctatgtct	aaggttctaa	ngtcctaagg	480
gttctatgat	cctacagttc	tctgactcca	anaacctaen	aattntatcc	ggttctataa	540
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<210> 9650

<211> 603

<212> DNA

<213> Homo sapiens

<400> 9650

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ctggatggga	atagatgtgg	taccagctag	gccactggac	tacccgagtt	cagctgccag	180
gaaatcagag	ccacctcaaa	tattgggcat	gctctgattc	agcagtggca	gtgccctata	240
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ccattttttt	ctgttaagca	aaataaatat	atacaattca	agattctttt	ctcttctaaa	360
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aattgaaaaa	aaaatcccca	nccccaattg	atnccatctt	ggagggctna	acnnttttaa	600
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<210> 9651

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9651

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tgttgttttg	catgggtggaa	aaattttcca	tactgttctt	cgggcatctt	tgttaaactg	540
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ccnaa						605

<210> 9652  
<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 9652  
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gactttatct ccgaagcctg cctgggtggga acgggcttgg cacaaaanga nctgcanaat 180  
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gatttttttt ttttttttga natggaatct cactctgttg cccangctgg anttnaattg 420  
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<210> 9653  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 9653  
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ctacaaccac gcaccaccat gcctgcctaa tttccacttt tttttttgta ganatgggggt 180  
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tatataataa tatgtatttt agaatgcatt tagattcttg cttatttgct gaaattgaaa 360  
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aatggccaat taaaatgggc caacttggtt atggaaattt nccatggcaa gggttnaaat 480  
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<210> 9654  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 9654  
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accaaccttt tggatcatct tctcattctc ttacaatcat cctaattccc tagtacacc 180  
ttaccatata tcaataaggc caccataata ttatgcaaag aacagatata tatgcctgat 240  
ctcttattag acttgacca gagactgttg aaccactcca ggcatgaact ccaaagctga 300  
ggcacactga ccaagcccct ggcatctac agaagcaaag gcgttctcgc tccagctggc 360  
tgctccttct ggaagagccc tttaatctgg gttaatcggc catagancct ctctctcaat 420  
ggaagaatgt ggtanctaag gtccaaaatg tttgtcctcc gcgctctctc tcttgcttcc 480  
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tttccccctta nccccanntgc ccc 563

<210> 9655

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9655

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ttcaggcgcc	cgccacnang	cccggcta	ttttgtntt	tttagtggan	acagggtttc	180
accgtgttag	ccaggatggt	cttgatctcc	tgacctcatg	atccacctgc	ctcggcctcc	240
caaagtgtg	ggattacagg	cgtgcgccac	cgtgcctggc	ccaccatgaa	ctacattttc	300
aaatccagg	atatgtgggc	tctaaaacca	caaattagcc	aaaataaaac	agttcttcaa	360
tagcaactaa	aaactatctt	ttaaataagaa	attataactt	ttctctgatt	tattgcaata	420
taaaaaatcc	tctggaacta	atttttacc	tcncttaata	tttctggtga	aaatatTTTT	480
aactgttacc	aattnattgn	aantTTTTt	aataattccc	ttncgttaan	cccccccaan	540
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<210> 9656

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9656

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tcttttgtgc	cagggtactat	tcttatgctg	aacttacctc	atttcattcc	atcccatcaa	180
cagccttgtg	aagtaagaaa	aatgaaactt	gctcagcaag	aatgtnaaac	caggctgtca	240
agctccagg	cccaagcatt	taaccaccat	tccgtgctgc	caacctantg	tonatttcat	300
ttccagcaca	agtnatncaa	tctgaaaanc	cacttgcttg	gaacaatgtt	gctttccttc	360
ttcaacacna	attaccccc	aagaataatg	acnttcnacc	ccatttctnt	taaaaggaa	420
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<210> 9657

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9657

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ctgtgggtgt	atatacccta	nagatcagaa	tggatggttt	tccagaatta	atganacttt	180
gaatgatgca	gatgttggcc	tttccccaaa	ataaaagggt	tttaaattaa	tagagcaaca	240
ggatgcaa	actgggcaaa	ttataagaaa	tcataaagtt	gaatctcana	aagcatatgt	300
tcagttttgt	nactgaaggc	tggtgaaaat	ttctnctctc	tctctttgaa	naatgaaatg	360
caaatgcctt	ttagcaatgg	cagcattcaa	atcccncaaa	aaatcangca	ggggcccctt	420
aaggaatact	ccattggcca	aactgtaaaa	cctgctgggg	ttaattnaaa	ttgaacaaat	480



nctcacaatt cttccctctt caaatitccg aaactggatt tggaaggtcc gatancncc 540  
ctttccggaa tgcccgncc cnggggttta aagatttgga cncnnc 586

<210> 9658  
<211> 621  
<212> DNA  
<213> Homo sapiens

<400> 9658  
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acactgaatt tgtccatctc anaacananc ccattagta ccctggaggg tccccaagct 180  
gctgggtccgg ggcgtggcag tcacagtgga ggaggagggg acagactgga gcacagctgg 240  
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aggtgccccg tcaactgtgc tcgganactt tcttggccac agcacctgcc ctctgtcca 360  
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cctgctctgc atctcangga cagatgaagt gggancgcag gaacccttaa aaaacggggc 480  
ccaagtaana atcaaantgc tttaacnaaca aatctgggcc ttgtttaaaa actttgggtt 540  
gcangatntt ttaactacca aaaaactatt gctccccccc caaggngaac ccaaccctaa 600  
actnttcccc caaaaaaat n 621

<210> 9659  
<211> 367  
<212> DNA  
<213> Homo sapiens

<400> 9659  
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ctggctntcc attctgggca cagtgtgaca ttacctgaa cagaaangaa aatggcncta 120  
naaaatgang gaaatttggg tgccataaaa ttactacaaa cangcagggg cgcaatggct 180  
cncgcatgtt atcccacact ttgggaagcn aagtgggtgc atcaccaagt caggagtgtt 240  
agatctgcct ggccaacatg gtgaaacccc ntcttacta aaaatacaaa acattanctg 300  
ggtgtggttg caggcacctg taatcccanc tactcnggag gctgangcan ganaattgct 360  
tgaactc 367

<210> 9660  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 9660  
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tgaatgaggc aaatttaggc ccacatcatt aggtatttca caacttaaca cctaaaattt 120  
aacataaatt taaaaaata aggcattatt taaagtcac tgagagaaact gttttacagg 180  
tatcttaact ttatttagct ctctgtagaa ttaacatctt tgcaaatata ttattcaacc 240  
aagcatttgc cataaagata agcatcaact ttccatttgg acaagtgata gtgttcaagc 300  
tacttgactt gtgaaaaaca aaaaaccacc atgacttctc aacaaataca ttttaaaatg 360  
aaatatgctc aggctgataa acaaacaaaa tattnaaatg ganactgaca ttgaactnnc 420

tagtcccttg aaaaaccna aaaacantgc cctataaaat gatattttat nggctttaca 480  
aaaacatac 489

<210> 9661  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 9661  
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tcaacaaaat acagtcttta aaacttaaat atcattttaa cagacttaaat tgcatacatt 120  
ttatatacgc acaaagtcag gattttttaca tggcagggaa atactgtgga atgatgangt 180  
ctgcaggaga cagatgctat caaatganga ctctgggggtg gtattttcta aaaatggggt 240  
tctgaaataa atttttattg tatgtagctt attttacttc tnagaaggaa caaaagatac 300  
ntttgggcag ccnaagtatt tctacttcct gcttaaaaca tttcnggcga atgaaatgat 360  
tataataatt aggtaagcca ccctattaat nccncggtc tncagtttct tatctttcta 420  
aatacctaaa aaattttattc nttcntttct cccctacccc cccctgcctt tctnaaatta 480  
tnttttgaca ttttataatn tttgnaaaat aaccaaaaat ttnttttaaa aaaa 534

<210> 9662  
<211> 481  
<212> DNA  
<213> Homo sapiens

<400> 9662  
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ctcatagcaa cgtattgcag tctccatgaa agtgcataa aacggttaag gcaaagtacc 180  
atcttggtac agacatgttg caaactgact tttaaaacaa ttttttaaaa tatatacaaaa 240  
ctttttttct tctattcttc tcaaaggcat ttgaaaggga tactttttatg aatattcttg 300  
ctgtagaaca atgtanaaat aacttctggg tataaaacag taaaaataaa aatattctac 360  
ctgagtggtg taaatcaagt gatttgtaaa acaaaacctc cacaantgtg ggctttctac 420  
atgttacttg ccaggctgaa aggnttaccc cncntnttc tcaacnaaa tccctantga 480  
a 481

<210> 9663  
<211> 504  
<212> DNA  
<213> Homo sapiens

<400> 9663  
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tcctctccat ttactctgtc aggctgtata tggggagcaa cacatatggc tttgtggcag 180  
ccagaaagtg aaggctcttt taggaggtga catcaacaat gacacaaaaca catcactctg 240  
caactgaagg cagggaacca gactcctagg gctaagcaga gatgtcagac ttcagaggca 300  
tttgggggac tcttcagatc cacatcctca ctgaaaatcc agggcctgtt tctctccagt 360  
tcactaccgc ttgggcagca gctcccaactg cttcaggctg gtcttttgctt tccagaaaag 420

atggactcat gagcactttt tcagcccctg tatatatggc tattcttatg ctcccctttg 480  
gagatntntt tnnncncaac nccc 504

<210> 9664  
<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 9664  
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gactgaaggg ctactaacct acctattcat tttaaagatg aggaaacaaa tgccagagac 120  
agtaataact tgtcaggagt ttccagaatt caattctcct tttttagatt aataaattag 180  
accagatttc ttcccatgg ttactgtctg aggagattaa ctaatatgcg atacatgatg 240  
tcttgggttc tttcatgttt aattcagttt gttgtgattt ctaaaaatgt atctctttaa 300  
aacaattgct gctgtgcaac agtgtgatgg caagggaaca gaaaacaaca aaaaaacttg 360  
attgaatact tcaatcaaag tgcttctttt ttatgtgagg ataaatcata ctgaattaag 420  
gggaaattta agaataattt ttaagaaata acaatttcag gtaggcaatt gtgaggaaaa 480  
taacaatcat acagccaagg ccacttaatc ctccccaacc ccagggtna aaaatcaagc 540  
ccgccttacc aatntcccc ccgttntttt gccttattta cangaatgnt tncn 594

<210> 9665  
<211> 587  
<212> DNA  
<213> Homo sapiens

<400> 9665  
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ttttcaggag tagatgttac atggcaggta tcaaaatgtg atgatcaatt ctgtgttttc 180  
tgttgattaa acctcctcat ttgggttaaatt agccagtgtg taccanaaag ttctacacag 240  
gtcaaaatta tatcactttt agagcagcaa tacgtgatcc aagggttttct tgaaggtagt 300  
gcaaaanatg cagttcataa tgttctcccg attcaggaac tcttatgctg tgtctctcct 360  
gaggatagat ctgtaaatca tatggctttc cagccctcac taaaaaactc agtaatatat 420  
tggtatgtgc aaaatggaca ttctcatcca ggaaaaccat gttaagaaac agtaaacaaat 480  
ttgggtcana aggggaacttt tctgcttgca tggccncaa tcctaattaa taaccctgtt 540  
cattctggtc ngggttaacco aaaaaaantt ccgnnttccc gtttccn 587

<210> 9666  
<211> 492  
<212> DNA  
<213> Homo sapiens

<400> 9666  
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tacaggtgcc cgccaccaca ccagccaat ttttgtatgt ttagtaana cagcgttttg 180  
ccatgttggc caggctggtc ttgaactcct gacctcaggt gatctgcca ccttgacctc 240  
ccaaagtgtt gggattacan gccaccgtgt ccggccaact ttttccttct ttacacgttc 300

tgcccacaaa	aaaaantgta	acatatgtct	gcactcanca	caaaaattat	gttacccttt	360
ttnggtntctg	cncatcaaac	gtatgggtgat	gtatnccttg	tcctaccctt	attgtgaatn	420
tgagtcccn	gcctgggtccc	tgtccacaaa	ggggcaatnt	tatacatctc	tgggcccctc	480
anccactnga	at					492

<210> 9667  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 9667						
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cccactttgg	catcccaaag	tgcananatt	acaggcttgt	gccaccatgc	cgcaccacaga	120
tcttattcat	tctatctaac	tatatattttg	taccatttaa	ccatctccac	tcctcttgaa	180
actacccttc	ccagcctctg	atatccatca	ttttactcca	tatctccatg	agtccactgt	240
tttaattttt	agctcctaca	aataaatgag	aacatgcaaa	gtctgtcttt	ctgtcctgac	300
atatttcatt	gaacataatg	acctctantt	ccatccatgt	tttgcaaatg	anangatctc	360
attcttcttt	atggctgaat	agtactccat	tgtgtatatg	taccanattt	cctttattca	420
ttaatctatt	gaaaggaaac	ttaaattcct	nccaaatctt	anctatcgtc	nttattttctg	480
cantaaacat	gggantgcaa	a				501

<210> 9668  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 9668						
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gntttttact	ccaagaaaga	tcatacatga	ttctttgttg	acaatgccag	gggtgattcan	120
aaagacaagt	naaatgttag	ccaaggnaat	gcacaggagc	gcagancagc	cgcactccag	180
cccctcttct	ctcagtttcc	ttaggatcct	ctattaccgc	ctcccctcca	ttcctaggcc	240
cagcctgtca	ttcctctcta	tggagttaact	gccagattgc	cttgccctcac	tgtaactgga	300
acatcaattt	tccccatgaa	tctgtgagcc	ctgcaaagtc	aganactgtg	ccttgctaac	360
accctantcc	tcaaaagcac	acaacagagt	ncttgacacc	cacgaagctc	tcangangca	420
ttgctgttga	ntatn					435

<210> 9669  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 9669						
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gcatctgggt	tttctactgg	gtgtcaactg	gccaaggant	gggggaaggg	tatgtgcctc	120
cttactgctg	aatgggggtg	anaatccana	attcccacgt	ggtctccact	gaaactctgg	180
gancggacaa	acttccttac	tgaccagtgg	ggatnaaatt	tctggctcct	ggcttgggtct	240
tctctgacac	caccccagca	agggganaaa	tctcacttga	ctcancctt	gctgggtgtng	300
gtgaaggggg	accacantgt	ttcctgtggg	gttcanctgc	anta		344

<210> 9670  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 9670  
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tggacactac gcacgaagaa aacaaggcca ngggttgggg gataaactta aggotccat 120  
gctttcattg ggangaataa canggggtcc tcatatctcc accaagtatg tnaccaacac 180  
aaattcaatg tncatctgg cactggccca naaaaangaa ccactcacc agggtcacc 240  
ancaagcatg gccagggtg gtcacactgt ggcctgacag gggaccaca ctctgggtg 300  
ctgatatggg gganctcaan gaacangtcn gcanaagatg atgtgtcan ganttggg 359

<210> 9671  
<211> 624  
<212> DNA  
<213> Homo sapiens

<400> 9671  
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ctatgtgttt tttccttaca aanactttcc accagtaaga ttgttacaat gtaaggtaag 180  
aaaacagtgt gaactatgtc acgaatagtt aatacagtat acagtattaa gatagttttt 240  
ctggtctcta aagaaatggg actttagaat tcagtgtgtc tcanaaataa ttctgaccat 300  
taagtaaaaca taaaaatttt aataaataac ataaatgaaa aaacaaacac cttttaaaaa 360  
ttgcttatac ctaacaaaac aatttctttg atgaagggtc tggttggntt tatcttggca 420  
gtgttcattt ttatacaatt tttgaattgc atttactcca ttctgatgaa attccccct 480  
ttggaatccc ngaanaaatg aaaccacata tgctaccata ttgtgncctc ccgaaatgct 540  
tcnatcccct tccgaacna atgaacaccc ccgccttgna anacataaaa naacantttt 600  
tgtgccgtac cgaatcctt aaaa 624

<210> 9672  
<211> 607  
<212> DNA  
<213> Homo sapiens

<400> 9672  
gaaattgcag aaataaattt tttttttaat tttcagaagt aaaaaaagtt ataatacttt 60  
aactgttaac aagggnntag ctgatatcca gttaccta tactgcatta atgtttttat 120  
tcttttcttg aaaatactca aatacaccta cattgtgtc ttttaaaaaa aaaataagga 180  
tacttacatt taaaaagttt ttgaggaan aaaattgtac aacattcatg tttttcatga 240  
cactgaatga tatatcaatt tatctcttag aanaaaaagt agcataatta aaatcactgg 300  
ttccctaata ttcaactctc tctccacaaa taaaacctac ctcttttcac aataaaaaag 360  
caaaaaataa tatacaatcn aaaggagcta aactgaaact ctttatcccc ttgtcaaaa 420  
nataaattaa ttgttgggan atcaacataa caatccnccc tgaatttttt ttcttttacc 480  
atttanctct ggtcaaaaaa naaataataa tctatanccc aaaatntttt aaactcctat 540  
cccttttccc cttatctgta aaaaagaaaa tggttttntt ttttaangaa cttttntttt 600

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607

<210> 9673

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9673

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attaaganca	ttatganaag	tctggtgaga	ctgttacaga	aaaaaaaaa	taaaagtttc	180
tgantctgat	aattccaagg	gtatctttta	naactcactc	actgggtgtc	gtgcaaggac	240
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ttttggattt	cattcacttg	acaaanaact	aatcttccgt	tgatgggtctc	ctgggttatg	360
gccttgatct	ttgganttgc	aaacactttc	ntgctcaact	ttgattcttc	ccgtntccct	420
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<210> 9674

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9674

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tctgtaactc	ccggtgaact	caactgtgct	tattactctt	cagttccaaa	ttatcacaat	180
caaatcgtat	agtgggtggg	gggtcttttg	ancagtatct	gtttggtttt	ctcgtgcatc	240
atttttcatt	gatttcctta	tgtcacggga	cagatcttcc	agttttctgt	ttttgtttgg	300
gtcttttccc	tgttcttttc	accagccctc	aggccaggca	cagtggctca	tgccgtgaat	360
cccaacactt	tgggaggctg	anacagcgga	tcactttag	ccaggaattc	ganaacantc	420
tgggcaacat	gacaaaccca	tctcttaatt	gttccaaaaa	attatccatg	tnctcnttnc	480
cattttcngg	aaatnccaac					500

<210> 9675

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9675

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tacatgtnc	cgccaccacg	cccggntaat	ttttgtatt	tttagtaaaa	acagggtttc	180
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attaaaccag	aataatctcc	ttaccttgaa	acaatgggtt	ttgttaattt	taaaaaaaaa	480
aaaaaatccc	ccnaagtttt	ctgaatcctc	ccagggaatt	ttctntnttn	ncntttttnc	540

cttttaaatt aa

552

<210> 9676

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9676

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agancccaaa	ctccgtgttt	ccgttctttc	tctttcgggt	tctgctgang	gctgggtgaca	120
cactggcctc	ttgtcagtgg	ctgccggcag	ggccaggaac	aaaatanaac	tgacgcacag	180
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ggtgctcgat	gccatacacc	ttgcggcact	tcttagcctc	ccctcgggct	ttcctggcac	300
cactctgggc	ccgggggtgga	gagggtgacca	tcanatgaga	tttcatcnca	ngtgctggct	360
gctggggctc	gctgaactta	ncgaccggct	ccggaccgga	aaaaaaaaac	angcggcgga	420
aggggcanca	ccccactgac	actggtntnn	attttttgtt	aaaaactggg	atnttgaaag	480
aatgcaaaaa	cctgttntcc	ttattttccc	gaattttccc	naaagaancc	c	531

<210> 9677

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9677

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acagaattttt	ctggaaaaga	nggatcacaa	caaccctgtt	aaaaggagac	tgagagtaat	120
tcatagctca	ccaagttctc	tccgtatcaa	atttccagaa	taccacacaag	atttcttcac	180
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gaaatagact	gaatcatcct	agacataatt	tcattagggc	tgcaaaccac	ccagggggag	420
agtancacaa	ttataccatt	ttgttatccn	cattccccag	aaatttgcta	ccccaatnaa	480
naaaactttg	tngccntana	cacttatatt	tttaaataat	ccccccaaa	atttccctgt	540
ttcccccttt	gtttcccttt	cccctttnaa	attnccccnt	gaattctccc	ggagaatgga	600
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<210> 9678

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9678

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tacaggcatg	agccaccata	cccagctaatt	tttgtatttt	tagtaaanat	ggagtcttct	180
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caaanantg	ggaatatagg	cgtgagccac	cacgcctggc	ccaaactgan	tttttttaaa	300
ggttttctgt	gaatcataaa	ttctactgaa	gccctatggt	gtataaatta	ttttcaattc	360

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ctccttttctt	catttatatt	ttcatatagt	ccctattcat	aacacaatga	tggtcctaaac	420
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agatatcata	ctaggcacia	agaaccattt	ctaagaaaag	tggtatanatc	tccttanaat	540
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aat						604

<210> 9679  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 9679	
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actggagcta	aancanccan
ta	

<210> 9680  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 9680	
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ctcacataaa	tccttgggat
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gaatgcttga	acttgtgatg
aattctctga	tgctgtgtag
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<210> 9681  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 9681	
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tttttcagt	tatttattat
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aggctataat	cagagcttat
gggcactcaa	anacagaggt
gaaanccan	ggtgaaaggt

09629469.072300



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<210> 9682

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9682

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actcaggaag	gatgtcttag	ttatgagggg	ggcgggtggaa	gacagtttat	atctttgggt	180
atztatggca	ggtcagaatt	aaagatttaa	ctttttccct	tactctttac	ataaaaagct	240
ggtttatctg	aaaaaagtat	caatctanac	ttggcaataa	agtggcactt	aggcactata	300
ttattgatat	ctacaatgac	ctcctggatg	cacaaaaaac	cctgaagggc	ttttttgatc	360
agcaaaaaca	aaacagaaaa	gcnaaaaaca	gttaattttt	gttttgggtca	attttactca	420
ccanaccctt	tgataccaac	aatgctggaa	aacatttggc	aaaaacaggg	ccncaatgcc	480
aantnccttg	gaaaggtaaa	ctcctataat	cttnccgat	nggcaanttg	ntgggggtttt	540
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<210> 9683

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9683

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aatacaaatt	cctaccatta	aactggcttg	gttggtgttt	gggttggaat	aactgtgggg	120
gcttggggaa	aggtgtcgtt	totttctant	antctcatgt	cgctttangt	cagctgggct	180
ggcttacacn	cgctgtgcgg	tottcatgga	natgggaact	ctgtgtgtca	gcacaggaaa	240
gtgggtctccc	ancgttcaac	ctgaaacacc	caantcctgt	aggtgcttgc	cgtctctgaa	300
accccgangaa	catcantgca	agaangaaaa	aactgctggc	aaaaatgact	cccaaggctg	360
ttctccnctc	tgggtgggaca	acctgggtgc	tggccccaan	gggctcctcc	aaaaaaaaatnt	420
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<210> 9684

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9684

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gttttccaaa	gcttttcaaat	ttttcttaac	attatctttc	gttttaagaa	cacttttgaa	120
gtcggcagtt	atttaaaatc	cttactagaa	aaaaaccaa	gccaaggat	tttgcattta	180
gtcatcatct	aggtatacac	cgtgttttcc	gaaagcatcc	tttaagagtt	tggagatttg	240
atgaaattgc	tcatgtataa	agcagttagt	gaatactatt	gaatcctaaa	cccagataag	300
tcntcttggg	ctggctgtgt	ttttcatgtg	aagaaactca	tttatagcac	aggcaccacca	360
ggccaatana	gatgattaca	gatctctggg	ttccagaaat	tcctgacccc	ttattccanc	420
tacaaaaata	cttaatttgct	aaaggaatta	cncccaccag	gcacaaaacg	gttnctgaat	480

ntnacaaaaa aaggtgccn aaaaatcttt taaaactcnt ggttacacat actttatctt 540  
taaaagggtt tgaaattttg gggaactaaa aatccngtaa aaanggttn ggtggntttt 600  
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<210> 9685

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9685

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gacaaatggg cattgttttg cttaacagtt ttagcttcaa tgtaaataa tattattact 180  
tagaatatta gcatctgaac tatataatga ctattttatc attttacttg aattaaaacc 240  
agaatttctg gaacttccaa atagtcttta aagtttttca atataaacat aaactaacc 300  
ctattcctct ctacatatca aatgtgaaat aactgtcaca atatatcagc attttcacag 360  
aaagatgttt aaggcttctg gcacataaaa tgtgtaattt ctgtgtgaca atgtcataat 420  
tatatacaga aaatatattaa aattcttgta gaatttaagt tctnaagatt aaaaaaacca 480  
gaattcccng tttataaaat attaaatcta tgaaccccc tnaaantgaa agnaattgtt 540  
ttccttaana aaccagggg ggttttcccc ccantnt 577

<210> 9686

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9686

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agtaagacat tataatagtc attgttaagg aagtccttct aactgacttt ataagaaaag 180  
ggngtgtatc acaagcatag ctctggaatg aagggaacta acatctana actgtcta 240  
atatacatca ggttgtaaaa ttccagcctt ttttatgtg ctggaaagta tcttttttac 300  
atatcttttt ttagtgata aactcttgat attcccacag aaaaaggaaa ttttcttaa 360  
ttcagatctg cacaatcat ctacccatga aattcattta cacagttaat atgacctgt 420  
aactggaaag gtgaccanac tantcacaaa ctggtccact cttgggaaa tttgcccctt 480  
tgaaccccaa attgtccaac tcccattgg atttttttan cccaattaaa ncctaaaaag 540  
gaaattttcc cccnnntcc tttcctccn gttccnccc c 581

<210> 9687

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9687

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ctacaagaca ccatgctata ggcttagcta cttgctgttg cacaagagaa ctttctgaa 120  
ctctcaggaa gcccttgcat ggcttatcga ggacagctca gtcactgaag ggaaaaattc 180  
cataccaaag aanagagaaa aattccatac caaagaacag acttcccca ggggaacctc 240

cgctctacag	cccttcaggg	ccatcacact	cacacacntc	agccatcntc	aaaatattgg	300
ccatgctggg	aaaaacagga	ncctgaacta	aaaggtgggc	ttcaaaccat	ggcntccgat	360
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<210> 9688

<211> 523

<212> DNA

<213> Homo sapiens

<400> 9688

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cacaacatac	atccttacia	aaaaagtcaa	aatgcaaact	taaaacttta	aacaaaagta	180
ttactaattt	aaaaaaagtt	tgtgttgggt	accattcgta	caacacagtt	aatttaaaca	240
ttctcatttt	ggttgcacat	gaaaaaggcg	gcagtagaaa	ataaagtcac	tgagggtttt	300
taaatagcag	aatangcagt	cttgccatgc	aggagaagca	atattaaata	ttagtttcaa	360
aaaaaatcca	catttaaaaa	tatttagttc	aagtcacaga	attttctcag	tanaaacccc	420
aatgcaatgc	ataattanct	ggcttaaatg	gcccgtttga	aaaggatana	tccctncaaa	480
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<210> 9689

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9689

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agtgggggaa	tctataaccc	canagggtac	ccccanacc	cccacccccg	ggagaccagt	120
cctcaccaac	ccttgatagg	gctcccaagg	ttgtgcanaa	aatgctccag	tcaaaaggat	180
ananacattt	gggaataagg	ctgtccccaa	gttgggggaa	ntccacggcc	tggantgggt	240
gcctacatgg	tggcccangg	gtctganana	ccaatccatg	tcctgggcga	ntcctcacct	300
ggtgggccta	aaagaaaccc	tncccggcgg	aaactttccc	tgnaagaang	gcnccgtact	360
ggtcaaattc	tccttccac	gggtnaagcc	gcctccttcg	cacacccaca	actcccggca	420
caccancctg	ataaaacnct	catcctggga	caccaaatac	nccccccct	naaatnttn	480
aaggcccgnc	caaaacccca	tggtc				505

<210> 9690

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9690

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gcctctctat	gtaacaggca	cccttctgct	actggtcaca	atcaatcaat	ggtccagacg	120
gcaattatga	ttttccacat	tcctcaaagc	tgctctctcc	tgaaatcact	ttgcaaattt	180
tgttgaccaa	tttgcaaaca	aaaganaatg	cagtggccta	cccaacctan	aaatctgttc	240
tgctaattc	ccttaaaaac	accattgaga	atgcaaaata	agtccctttt	ttgttttttg	300
cagaagcact	acaagaaagc	gtgtctaaaa	ccacagaact	atgcacacac	aaacacagac	360

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acgcgtgctc	gcacacacag	agtcgggato	aaagaatctt	atctgataca	tanttggggg	420
agcacgggaa	aaagctggca	agaaaaggat	atggagagat	ctgatcagct	aaagatgttg	480
gaatgttaca	ntatggcatg	gaaattgggt	cttgggctat	acaaaaaagg	gggtgggcag	540
gcaaaaaaaa	taataantcc	cggctnctaa	aaaaaagttc	agtggccctc	ctnatttaaa	600
nanattaaan	gccntttcct	ggat				624

<210> 9691

<211> 376

<212> DNA

<213> Homo sapiens

<400> 9691

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ctgccagtac	aaagtgaana	ttctacatgg	tgcatctttg	gcgcttcacg	catgattatt	120
tcaatgaacc	tcttcctggg	cactcttaan	atagatctga	gtttttgact	cgccagtcaa	180
gggcttttgg	gacactcaat	gacataatat	tcttggaaaa	agcagtagca	tttctgactt	240
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<210> 9692

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9692

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atttataata	ccactctact	gcagtctttg	actccaagat	attttaaatc	atatttggtc	120
gctgangaan	anataagtta	tagtatgcat	ccttggtcca	aaaatctggg	cccttccatc	180
cgcaccagcc	cttttccaaa	ataacttgca	ggtcttcagc	accggtataa	tgtggatcta	240
gaatcagaaa	ctttatctgc	cctgtaatct	cattccatgc	aactcctagt	attgtgtggg	300
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aatttngttg	gttgtccccg	gctccaacaa	aaccgccgna	attcnngtn	tnnttgga	540
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<210> 9693

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9693

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aaggaaatgg	aaaaaggggt	cncgtgctcng	tccaaaatan	gcttgcaana	ctgcattctc	180
tggatgtccc	aatanaatac	ctcaaggagc	ttggcgtcng	gaancaattg	ccctcagcaa	240
accttctggg	gcaggcacag	tcatganttt	gccacattc	tgtattcatg	ataaacagtt	300

tgctgtttga	tcgtatanac	tcactggaat	gttggtcacn	tcccatgggc	ctttggctct	360
ctgtatatcc	tcctttctgt	ttatgtatta	attgaaagan	tgtnnngcca		410

<210> 9694

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9694

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cgtggccggg	cggcaacaac	atcacactgg	gccatttaag	gcagctcctt	ctggcggggc	180
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tactgccatn	atggggcccta	nggggaccnc	cacggccagt	gcaaaaaaaaa	ntgctggggg	300
nggtatggcg	ggggccancct	tgctcaatgc	tgtgggtgatg	gccacantaa	cctcgggggg	360
cacanccacg	gctggggcaa	caatcacttc	ctttggcccn	gggcaagcaa	ggcttaacaa	420
ccngctgtca	acacacccga	cctgccgaac	gcctcctctn	ttctggccac	tnttggcacn	480
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<210> 9695

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9695

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acgggtgctg	gccaccacat	ccagctaatt	tttgtatttt	tagtaaanat	ggggtttcac	180
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anatggattt	atgtcataag	anctgccttt	gtaataaaan	tggaataagg	tnngctacca	420
aana						424

<210> 9696

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9696

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catatcttta	tcctagttc	atttacaaga	gagcagcgta	acggtaactt	tganattttc	180
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catccaaaat	actcttatgt	ctatctgaat	tttttctctg	tactcttctt	ttttcttaaa	420

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ccttgctgtt tattccttaa tctaacacac cttagtttgg tagtatactt tacttaattg 540  
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<210> 9697

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9697

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ctgattatta anaattcttt ttgttaacat taactctcta aagacaatca atggactgac 180  
atcactgcta caacacaggt tgctaactga gcctctgata ttcagccaca tcttgatttt 240  
cctaataatg agtaaatact gcctggctaa aatgcagcaa agtcttgatg agagaaagca 300  
tcaacagatc aagcaaagcc atgaaaatta tgaagcaagc tagagctgat tattagaaat 360  
tagtaaaaaat gattaagaag aggatgacac aaccntacgg gattttgtata ttctgattga 420  
cactcttttg gcagcgaatt gggtcagcac ctcgggcagg gaaccaaaac tgaatgaaaa 480  
ctgctctttt tcctcctanc tcaggcnacc aacgtcacac cggggactga aaaaactgct 540  
gcatctgtgg aaacttctat tcncccttggg gnaaaaatgc a 581

<210> 9698

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9698

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acatatataa gcacataaaa atcattttac gtaatacgtc gcgaaatacg ttgactcctc 180  
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gtctctgctg ctgtattatt tttagggctg cctcctccaa gcagttaggt aattgctttg 300  
ttccgagcat ttgtgctagc tgaaacctcc ccttcttctt cttcttcac aggggtccana 360  
tgttccatga naagtttgaa atctaaatac tgttttacta tactcccttt tcacctcttc 420  
tgtgattttg gaattancca tgtcctccgc aaggaaatcc aatgttggtt ttggatnaaa 480  
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<210> 9699

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9699

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ttctaatttg attgcactgt ggtctgaaan actgttgtga tttccgttct ttgcatctg 180  
gtgtgtagtg ttttacttcc aattatgttg tcaattttan aataagtgcg atgtggtgct 240

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ctgaatattc	ttgttaattt	tctgtctcat	tgttctgtct	aatattgaca	gtggaatgtc	420
aaatctccca	ttattattgt	gtganaatct	aagtctcttg	taggtcncta	anaacttgcc	480
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<210> 9700

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9700

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atgttttgtt	aaaccattct	aatttgggca	acaatattat	tgactgtgat	aaagataaca	180
acaatgatga	attgatgaca	cttttgtaaa	ttgctttata	gttcaaagan	cattttcaca	240
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aaaggtttgt	gttttggata	nttttaagtg	tanacacagg	gcacatgtat	gcttttaatt	420
cagttcttca	attaanatga	tctttggagg	aaaaaactct	cctgatgaat	tttaaaaaac	480
aaacacaggt	ttanatacaa	aaaaaactctg	gctggcatct	ggcggganta	ntaataatgg	540
gcctcttaca	ttgttcanga	aagngtgna				569

<210> 9701

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9701

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gtgcttttga	cttgatgaat	tgaatgagtt	catgattcaa	ctttctaatt	ttgtctactt	180
gaaaaatagc	aagattctta	tctgcagcat	ttaatgcatt	aagatgtatt	agataggcat	240
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<210> 9702

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9702

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<210> 12774

<211> 526

<212> PRT

<213> Homo sapiens

<400> 12774

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Trp	Ala	Ser	Leu	Gln	Arg	Pro	Glu	Ile	Lys	Leu	Glu	Ser	Leu	Lys	Glu	35	40	45	
Asp	Ile	Lys	Glu	Phe	Phe	Lys	Ile	Ser	Gly	Trp	Glu	Lys	Lys	Leu	Gln	50	55	60	
Asn	Ala	Val	Tyr	Ser	Glu	Leu	Ser	Val	Phe	Pro	Leu	Pro	Ser	His	Pro	65	70	75	80
Ala	Ala	Pro	Pro	Glu	His	Leu	Lys	Glu	Pro	Leu	Val	Tyr	Met	Arg	Lys	85	90	95	
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Cys	Thr	Glu	Leu	Ser	Ile	Pro	Leu	Ala	Arg	Lys	Arg	Pro	Val	Gly	Glu	115	120	125	
Gln	Lys	Glu	Leu	Leu	Asn	Lys	Trp	Asn	Glu	Met	Gly	Thr	Asp	Glu	Pro	130	135	140	
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Leu	His	Ser	Ile	Ser	Ser	His	Pro	Ser	Gly	Ile	Val	Ser	Leu	Cys	Leu
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			420					425					430		
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Val	Arg	Ala	Phe	Ser	Gly	Tyr	Leu	Ala	Thr	Asp	Gln	Leu	Leu	Leu	Leu
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Ala	Ala	Ala	Val	Phe	Ala	Phe	Arg	Ala	Val	Asn	Leu	Met	Glu	Val	Thr
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<211> 1881

<212> DNA

<213> Homo sapiens

<400> 12775

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<210> 12776  
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 <213> Homo sapiens

<400> 12777

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65				70					75					80	
Ser	Ala	Tyr	Leu	Ala	Met	Asp	Thr	Glu	Glu	Gly	Val	Glu	Val	Val	Trp
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Phe	Leu	Lys	Lys	Thr	Lys	Lys	Asn	His	Lys	Thr	Met	Asn	Glu	Lys	Ala
			165						170					175	
Trp	Lys	Arg	Trp	Cys	Thr	Gln	Ile	Leu	Ser	Ala	Leu	Ser	Tyr	Leu	His
		180						185					190		
Ser	Cys	Asp	Pro	Pro	Ile	Ile	His	Gly	Asn	Leu	Thr	Cys	Asp	Thr	Ile
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Phe	Ile	Gln	His	Asn	Gly	Leu	Ile	Lys	Ile	Gly	Ser	Val	Ala	Pro	Asp
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	290					295				300					
Gln	Lys	Cys	Leu	Gln	Ser	Glu	Pro	Ala	Arg	Arg	Pro	Thr	Ala	Arg	Glu
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Ala	Ala	His	Cys	Ile	Val	Gly	His	Gln	His	Met	Ile	Pro	Glu	Asn	Ala
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Gln	Glu	Glu	Val	Thr	Ser	Pro	Val	Val	Pro	Pro	Ser	Val	Lys	Thr	Pro
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Thr	Pro	Glu	Pro	Ala	Glu	Val	Glu	Thr	Arg	Lys	Val	Val	Leu	Met	Gln
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Cys	Asn	Ile	Glu	Ser	Val	Glu	Glu	Gly	Val	Lys	His	His	Leu	Thr	Leu
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465					470					475					480
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ctc

1803

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Thr Tyr Phe Asp Met Asn Leu Phe Leu Asp Ile Ile Leu Lys Thr Val  
35 40 45  
Leu Glu Asn Ser Gly Lys Arg Arg Ile Val Phe Ser Ser Phe Asp Ala  
50 55 60  
Asp Ile Cys Thr Met Val Arg Gln Lys Gln Asn Lys Tyr Pro Ile Leu  
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Phe Leu Thr Gln Gly Lys Ser Glu Ile Tyr Pro Glu Leu Met Asp Leu  
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Pro Asn Ile Phe Gln Val Glu Gln Leu Glu Arg Leu Lys Gln Glu Leu  
180 185 190  
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195 200 205  
Ser Ser Leu Cys Gly Glu Ser Asp Ile His Val Asp Ala Asn Gly Ile  
210 215 220  
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09629469.072800

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<220>  
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 <213> Homo sapiens

<400> 12782

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Thr Asp Glu Leu Gly Gln Lys Glu Glu Ala Lys Asn Tyr Tyr Lys Gln
      35             40             45
Gly Ile Gly His Leu Leu Arg Gly Ile Ser Ile Ser Ser Lys Glu Ser
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Glu His Thr Gly Pro Gly Trp Glu Ser Ala Arg Gln Met Gln Gln Lys
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<213> Homo sapiens

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<400> 12784

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 35 40 45  
 Leu Leu Asn Ala Gln His Gln Arg Leu Leu Glu Met Leu Asp Thr Glu  
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 Lys Glu Leu Leu Lys Glu Lys Ile Lys Glu Ala Leu Ile Gln Gln Ser  
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 Gln Glu Gln Lys Glu Ile Leu Glu Lys Cys Leu Glu Glu Glu Arg Gln  
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 Arg Asn Lys Glu Ala Leu Val Ser Ala Ala Lys Leu Glu Lys Glu Ala  
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 Val Lys Asp Ala Val Leu Lys Val Val Glu Glu Glu Arg Lys Asn Leu  
 115 120 125  
 Glu Lys Ala His Ala Glu Glu Arg Glu Leu Trp Lys Thr Glu His Ala  
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 165 170 175  
 Gln Lys Arg Ser Glu Lys Ala Val Glu Glu Ala Val Lys Arg Thr Arg  
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 Asp Glu Leu Ile Glu Tyr Ile Lys Glu Gln Lys Arg Leu Asp Gln Val  
 195 200 205  
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<400> 12786

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<211> 608

<212> PRT

<213> Homo sapiens

<400> 12788

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Leu	Leu	Cys	Ala	Arg	Gln	Gly	Ala	Ala	Asn	Glu	Pro	Arg	Tyr	Thr	Cys
		35					40					45			
Ser	Glu	Ala	Gln	Lys	Ala	Ala	His	Lys	Arg	Lys	Ile	Ser	Pro	Val	Lys
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Ser	Gln	Glu	Asp	Leu	Gly	Trp	Cys	Leu	Ser	Ser	Ser	Asp	Asp	Glu	Leu
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Gln	Pro	Glu	Met	Pro	Gln	Lys	Gln	Ala	Glu	Lys	Val	Val	Ile	Lys	Lys
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Asp	Trp	Leu	Val	Lys	Gln	Tyr	Pro	Pro	Glu	Phe	Arg	Lys	Lys	Pro	Ile
	210					215					220				

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Leu	Leu	Val	His	Gly	Asp	Lys	Arg	Glu	Ala	Lys	Ala	His	Leu	His	Ala
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Gln	Ala	Lys	Pro	Tyr	Glu	Asn	Ile	Ser	Leu	Cys	Gln	Ala	Lys	Leu	Asp
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Ile	Ala	Phe	Gly	Thr	His	His	Thr	Lys	Met	Met	Leu	Leu	Leu	Tyr	Glu
			260					265						270	
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Trp	His	Gln	Lys	Thr	Gln	Gly	Ile	Trp	Leu	Ser	Pro	Leu	Tyr	Pro	Arg
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Ile	Ala	Asp	Gly	Thr	His	Lys	Ser	Gly	Glu	Ser	Pro	Thr	His	Phe	Lys
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Ala	Asp	Leu	Ile	Ser	Tyr	Leu	Met	Ala	Tyr	Asn	Ala	Pro	Ser	Leu	Lys
				325					330						335
Glu	Trp	Ile	Asp	Val	Ile	His	Lys	His	Asp	Leu	Ser	Glu	Thr	Asn	Val
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Thr	Ser	Leu	Glu	Gly	Tyr	Pro	Ala	Gly	Gly	Ser	Leu	Pro	Tyr	Ser	Ile
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Ser	Ala	Glu	Thr	Ser	Gly	Arg	Ser	Asn	Ala	Met	Pro	His	Ile	Lys	Thr
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		515					520					525			
Gly	Thr	Gln	Leu	Met	Ile	Arg	Ser	Tyr	Glu	Leu	Gly	Val	Leu	Phe	Leu
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Pro	Ser	Ala	Phe	Gly	Leu	Asp	Ser	Phe	Lys	Val	Lys	Gln	Lys	Phe	Phe
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Ala	Gly	Ser	Gln	Glu	Pro	Met	Ala	Thr	Phe	Pro	Val	Pro	Tyr	Asp	Leu
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Pro	Pro	Glu	Leu	Tyr	Gly	Ser	Lys	Asp	Arg	Pro	Trp	Ile	Trp	Asn	Ile
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<212> PRT

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<213> Homo sapiens

<400> 12790

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Asp Ile Asp Asp Glu Glu Asp Glu Asp Asp Lys Glu Ser Glu Lys Lys
           35           40           45
Gly Leu Ile Glu Arg Ile Tyr Met Val Gln Asp Ile Val Ser Thr Val
           50           55           60
Gln Asn Val Leu Glu Glu Ile Ala Ser Phe Gly Glu Arg Ile Lys Asn
           65           70           75           80
Thr Phe Asn Trp Thr Val Pro Phe Leu Ser Ser Leu Ala Cys Leu Ile
           85           90           95
Leu Ala Ala Ala Thr Ile Ile Leu Tyr Phe Ile Pro Leu Arg Tyr Ile
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Ile Leu Ile Trp Gly Ile Asn Lys Phe Thr Lys Lys Leu Arg Asn Pro
           115          120          125
Tyr Ser Ile Asp Asn Asn Glu Leu Leu Asp Phe Leu Ser Arg Val Pro
           130          135          140
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<212> DNA

<213> Homo sapiens

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<222> (116).. (1210)

<400> 12791

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008220.69462960

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<212> PRT

<213> Homo sapiens

<400> 12792

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			20				25					30			
Ala	Glu	Lys	Thr	Glu	Leu	Asp	Ala	His	Leu	Glu	Asn	Leu	Ser	Lys	
		35				40					45				
Ala	Glu	Cys	Thr	Lys	Ile	Trp	Thr	Glu	Lys	Ile	Met	Lys	Gln	Thr	Glu
	50				55					60					
Val	Leu	Leu	Gln	Pro	Asn	Pro	Asn	Ala	Arg	Ile	Glu	Glu	Phe	Val	Tyr
	65			70				75					80		
Glu	Lys	Leu	Asp	Arg	Lys	Ala	Pro	Ser	Arg	Ile	Asn	Asn	Pro	Glu	Leu
			85				90				95				
Leu	Gly	Gln	Tyr	Met	Ile	Asp	Ala	Gly	Thr	Glu	Phe	Gly	Pro	Gly	Thr
		100				105					110				
Ala	Tyr	Gly	Asn	Ala	Leu	Ile	Lys	Cys	Gly	Glu	Thr	Gln	Lys	Arg	Ile
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Gly	Thr	Ala	Asp	Arg	Glu	Leu	Ile	Gln	Thr	Ser	Ala	Leu	Asn	Phe	Leu
	130				135					140					
Thr	Pro	Leu	Arg	Asn	Phe	Ile	Glu	Gly	Asp	Tyr	Lys	Thr	Ile	Ala	Lys
145				150					155				160		
Glu	Arg	Lys	Leu	Leu	Gln	Asn	Lys	Arg	Leu	Asp	Leu	Asp	Ala	Ala	Lys
			165				170					175			
Thr	Arg	Leu	Lys	Lys	Ala	Lys	Ala	Ala	Glu	Thr	Arg	Asn	Ser	Ser	Glu
		180					185					190			

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Gln Glu Leu Arg Ile Thr Gln Ser Glu Phe Asp Arg Gln Ala Glu Ile  
 195 200 205  
 Thr Arg Leu Leu Leu Glu Gly Ile Ser Ser Thr His Ala His His Leu  
 210 215 220  
 Arg Cys Leu Asn Asp Phe Val Glu Ala Gln Met Thr Tyr Tyr Ala Gln  
 225 230 235 240  
 Cys Tyr Gln Tyr Met Leu Asp Leu Gln Lys Gln Leu Gly Ser Phe Pro  
 245 250 255  
 Ser Asn Tyr Leu Ser Asn Asn Asn Gln Thr Ser Val Thr Pro Val Pro  
 260 265 270  
 Ser Val Leu Pro Asn Ala Ile Gly Ser Ser Ala Met Ala Ser Thr Ser  
 275 280 285  
 Gly Leu Val Ile Thr Ser Pro Ser Asn Leu Ser Asp Leu Lys Glu Cys  
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 Ser Gly Ser Arg Lys Ala Arg Val Leu Tyr Asp Tyr Asp Ala Ala Asn  
 305 310 315 320  
 Ser Thr Glu Leu Ser Leu Leu Ala Asp Glu Val Ile Thr Val Phe Ser  
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 Val Val Gly Met Asp Ser Asp Trp Leu Met Gly Glu Arg Gly Asn Gln  
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 <212> DNA  
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 <222> (4).. (2466)

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<212> PRT

<213> Homo sapiens

<400> 12794

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          20             25             30
Leu Gln Cys Leu Ser Phe Ser Gly Val Lys Glu Arg Glu Trp Gln Met
          35             40             45
Glu Ser Leu Ile Arg Tyr Ile Lys Val Ile Gly Gly Pro Pro Gly Arg
          50             55             60
Glu Gly Leu Leu Val Gly Leu Lys Asn Gly Gln Ile Leu Lys Ile Phe
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Val Asp Asn Leu Phe Ala Ile Val Leu Leu Lys Gln Ala Thr Ala Val

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	515		520		525	
Ala Glu Leu Tyr His Gly Tyr His Ala Ile His Arg His Thr Glu Asp						
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Pro Phe Ser Val His Arg Pro Glu Thr Leu Phe Asn Ile Ser Arg Phe						
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Leu Leu His Ser Leu Pro Lys Asp Thr Pro Ser Gly Ile Ser Lys Val						
	565		570		575	
Lys Ile Leu Phe Thr Leu Ala Lys Gln Ser Lys Ala Leu Gly Ala Tyr						
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Arg Leu Ala Arg His Ala Tyr Asp Lys Leu Arg Gly Leu Tyr Ile Pro						
	595		600		605	
Ala Arg Phe Gln Lys Ser Ile Glu Leu Gly Thr Leu Thr Ile Arg Ala						
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Lys Pro Phe His Asp Ser Glu Glu Leu Val Pro Leu Cys Tyr Arg Cys						
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Ser Thr Asn Asn Pro Leu Leu Asn Asn Leu Gly Asn Val Cys Ile Asn						
	645		650		655	
Cys Arg Gln Pro Phe Ile Phe Ser Ala Ser Ser Tyr Asp Val Leu His						
	660		665		670	
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Lys Asp Ser Ile Gly Asp Glu Asp Pro Phe Thr Ala Lys Leu Ser Phe						
	725		730		735	
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	740		745		750	
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	755		760		765	
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<400> 12796

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 <212> PRT  
 <213> Homo sapiens

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 35 40 45  
 Gly Pro Val Cys Lys Gly Lys Trp Lys Asn Lys Glu Arg Ile Leu Ile  
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Leu Arg Met Leu Met Pro His Ser Lys Ala Asp Thr Lys Met Asp Arg  
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<210> 12805  
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 <213> Homo sapiens

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<212> DNA  
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<222> (1).. (549)

<400> 12806

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<212> PRT

<213> Homo sapiens

<400> 12807

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Glu Lys Ala Glu Ala Ala Ala Thr Leu Lys Ala Ala Pro Gly Trp Leu
          35          40          45
Lys Arg Phe Leu Val Trp Lys Pro Arg Pro Ala Ser Ala Arg Ala Gln
          50          55          60
Pro Gly Leu Val Gln Glu Ala Ala Gln Pro Gln Gly Ser Thr Ser Glu
          65          70          75          80
Thr Pro Trp Asn Thr Ala Ile Pro Leu Pro Ser Cys Trp Asp Gln Ser
          85          90          95
Phe Leu Thr Asn Ile Thr Phe Leu Lys Val Leu Leu Trp Leu Val Leu
          100          105          110
Leu Gly Leu Phe Val Glu Leu Glu Phe Gly Leu Ala Tyr Phe Val Leu
          115          120          125
Ser Leu Phe Tyr Trp Met Tyr Val Gly Thr Arg Gly Pro Glu Glu Lys
          130          135          140
Lys Glu Gly Glu Lys Ser Ala Tyr Ser Val Phe Asn Pro Gly Cys Glu
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<210> 12808

<211> 2129

<212> DNA

<213> Homo sapiens

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<222> (79).. (1299)

<400> 12808

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<210> 12809  
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 <212> PRT  
 <213> Homo sapiens

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 Ile Pro Ser Ile Lys Thr Val Ile Asn Tyr Asp Val Ala Arg Asp Ile  
 35 40 45  
 Asp Thr His Thr His Arg Ile Gly Arg Thr Gly Arg Ala Gly Glu Lys  
 50 55 60  
 Gly Val Ala Tyr Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly  
 65 70 75 80  
 Asp Leu Val Arg Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu  
 85 90 95

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Leu Leu Asp Leu Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe  
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 Lys Gly Gly Lys Gly Lys Lys Leu Asn Ile Gly Gly Gly Gly Leu Gly  
                   115                                  120                  125  
 Tyr Arg Glu Arg Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn  
                   130                                  135                  140  
 Asn Asn Val Met Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala  
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 Met Gly Asp Arg Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr  
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 Lys Ser His Phe Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser  
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 Ser Ala Ala Gly Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser  
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                   210                                  215                  220  
 Val Thr Ser Ala Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn  
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                   260                                  265                  270  
 Asn Gly Lys Arg Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Arg His  
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 Ser His Gly Glu Thr Gly Asn Arg His Ser Asp Ser Pro Arg His Gly  
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 Asp Gly Gly Arg His Gly Asp Gly Tyr Arg His Pro Glu Ser Ser Ser  
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 Arg His Thr Asp Gly His Arg His Gly Glu Asn Arg His Gly Gly Ser  
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<221> CDS  
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<400> 12810

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<210> 12811  
<211> 351  
<212> PRT  
<213> Homo sapiens

<400> 12811

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Pro Leu Leu Arg Lys Ser Ser Arg Arg Phe Val Ile Phe Pro Ile Gln
          35           40           45
Tyr Pro Asp Ile Trp Lys Met Tyr Lys Gln Ala Gln Ala Ser Phe Trp
          50           55           60
Thr Ala Glu Glu Val Asp Leu Ser Lys Asp Leu Pro His Trp Asn Lys

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Gln	Glu	Val	Gln	Val	Pro	Glu	Ala	Arg	Cys	Phe	Tyr	Gly	Phe	Gln
		115					120					125		
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	130					135					140			
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	275					280					285			
Val	Ala	Asp	Arg	Leu	Leu	Val	Glu	Leu	Gly	Phe	Ser	Lys	Val	Phe
	290					295					300			
Ala	Glu	Asn	Pro	Phe	Asp	Phe	Met	Glu	Asn	Ile	Ser	Leu	Glu	Gly
305					310					315				320
Thr	Asn	Phe	Phe	Glu	Lys	Arg	Val	Ser	Glu	Tyr	Gln	Arg	Phe	Ala
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<210> 12812  
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 <212> DNA  
 <213> Homo sapiens

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 tttagagatg tacaaaagot gaccgaattc actaccagtc aaccacact acaagaaaca 180  
 tcaaatgagt cctccaagca gaaggaatcc aataccagat gaaaatccag atctccacga 240  
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<210> 12813  
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 <213> Homo sapiens

<220>  
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 <213> Homo sapiens.

<400> 12814

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		20					25					30			
Ile	Ala	Trp	Ala	His	Pro	Arg	Arg	Gly	Ala	Pro	Gly	Ser	Ala	Val	Arg
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Leu	Leu	Asp	Ala	Ala	Gly	Glu	Glu	Gly	Glu	Ala	Gly	Asp	Glu	Glu	Leu
	50				55				60						
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Leu	Asp	Arg	Ser	Arg	Pro	Ala	Val	Ser	Val	Thr	Ile	Gly	Thr	Ser	Glu
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Gly	Val	Phe	Lys	Pro	Lys	Ser	Glu	Glu	Pro	Tyr	Gly	Gln	Leu	Asn	Pro	145	150	155
Lys	Trp	Thr	Lys	Tyr	Val	His	Lys	Val	Cys	Cys	Pro	Cys	Cys	Phe	Gly	165	170	175
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Tyr	Leu	Val	Asp	Asn	Lys	Leu	His	Leu	Ser	Ile	Val	Pro	Lys	Thr	Lys	195	200	205
Val	Val	Trp	Leu	Val	Ser	Glu	Thr	Phe	Asn	Tyr	Asn	Ala	Ile	Asp	Arg	210	215	220
Ala	Lys	Ser	Arg	Gly	Lys	Lys	Tyr	Ala	Leu	Glu	Lys	Val	Pro	Lys	Val	225	230	235
Gly	Arg	Lys	Phe	His	Arg	Ile	Gly	Leu	Pro	Pro	Lys	Ile	Gly	Ser	Phe	245	250	255
Gln	Leu	Phe	Val	Glu	Gly	Tyr	Lys	Glu	Ala	Glu	Tyr	Trp	Leu	Arg	Lys	260	265	270
Phe	Glu	Ala	Asp	Pro	Leu	Pro	Glu	Asn	Ile	Arg	Lys	Gln	Phe	Gln	Ser	275	280	285
Gln	Phe	Glu	Arg	Leu	Val	Ile	Leu	Asp	Tyr	Ile	Ile	Arg	Asn	Thr	Asp	290	295	300
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Lys	Glu	Ile	Asp	His	Lys	Glu	Ser	Lys	Trp	Ile	Asp	Asp	Glu	Glu	Phe	325	330	335
Leu	Ile	Lys	Ile	Ala	Ala	Ile	Asp	Asn	Gly	Leu	Ala	Phe	Pro	Phe	Lys	340	345	350
His	Pro	Asp	Glu	Trp	Arg	Ala	Tyr	Pro	Phe	His	Trp	Ala	Trp	Leu	Pro	355	360	365
Gln	Ala	Lys	Val	Pro	Phe	Ser	Glu	Glu	Ile	Arg	Asn	Leu	Ile	Leu	Pro	370	375	380
Tyr	Ile	Ser	Asp	Met	Asn	Phe	Val	Gln	Asp	Leu	Cys	Glu	Asp	Leu	Tyr	385	390	395
Glu	Leu	Phe	Lys	Thr	Asp	Lys	Gly	Phe	Asp	Lys	Ala	Thr	Phe	Glu	Ser	405	410	415
Gln	Met	Ser	Val	Met	Arg	Gly	Gln	Ile	Leu	Asn	Leu	Thr	Gln	Ala	Leu	420	425	430
Arg	Asp	Gly	Lys	Ser	Pro	Phe	Gln	Leu	Val	Gln	Ile	Pro	Cys	Val	Ile	435	440	445
Val	Glu	Arg	Ser	Gln	Gly	Gly	Ser	Gln	Gly	Arg	Ile	Val	His	Leu	Ser	450	455	460
Asn	Ser	Phe	Thr	Gln	Thr	Val	Asn	Cys	Arg	Lys	Pro	Phe	Phe	Ser	Ser	465	470	475
Trp																		480

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <213> Homo sapiens

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<400> 12816

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Pro	Trp	Met	Gly	Gly	Gly	Ser	Thr	His	Phe	Ala	Lys	Trp	Gly	Gln	Asp	35	40	45	
Thr	His	Asp	Leu	Leu	Glu	Glu	Thr	Ala	Ser	His	His	Val	Ala	Lys	Ala	50	55	60	
Gly	Leu	Lys	Leu	Arg	Arg	Ser	Ser	Asp	Pro	Pro	Ala	Ser	Ala	Tyr	Pro	65	70	75	80
Cys	Ala	Gly	Val	Ser	His	Arg	Arg	Arg	Glu	Pro	Pro	Cys	Leu	Ala	Lys	85	90	95	
Ile	Leu	Gly	Leu	Phe	Trp	Ile	Leu	Ile	Phe	Phe	Met	His	Ser	Leu	Arg	100	105	110	
Leu	Pro	Gly	Arg	Glu	Ser	Arg	Val	Glu	Glu	Pro	Leu	Glu	Asn	Asp	Ile	115	120	125	
Ser	Gln	Leu	Val	Asp	Glu	Val	Val	Cys	Ala	Leu	Gln	Pro	Val	Ile	Gln	130	135	140	
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Phe	Arg	Thr	Ala	Leu	Gly	Leu	Lys	Glu	Asn	Asn	Gln	Pro	Glu	Pro	Leu	165	170	175	
His	Leu	Phe	Leu	Ser	Ser	Ala	Thr	Pro	Val	His	Ser	Lys	Ala	Trp	His	180	185	190	
Arg	Ile	Pro	Lys	Asp	Asp	Glu	Leu	Ser	Glu	Glu	Gln	Ile	Ser	His	Tyr	195	200	205	
Leu	Met	Glu	Phe	Gly	Gly	Thr	Pro	Lys	His	Phe	Ala	Glu	Ala	Lys	Glu	210	215	220	
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Arg	Ser	Cys	Thr	Ser	Asn	Val	Pro	Ser	Lys	Ala	Val	Leu	Ser	Cys	Asp	245	250	255	
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<210> 12817

<211> 1985

<212> DNA

<213> Homo sapiens

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<220>  
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<222> (27).. (1772)

<400> 12817

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<212> PRT  
<213> Homo sapiens

<400> 12818

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		35					40					45			
Asp	Ile	Glu	Gly	Thr	Leu	Phe	Val	Tyr	Arg	Arg	Ser	Ala	Ser	Pro	Tyr
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His	Gly	Phe	Thr	Ile	Val	Asn	Arg	Leu	Asn	Met	His	Asn	Leu	Val	Glu
65					70					75					80
Pro	Val	Asn	Lys	Asp	Leu	Glu	Phe	Gln	Leu	His	Glu	Pro	Phe	Leu	Leu
			85						90					95	
Tyr	Arg	Asn	Ala	Ser	Leu	Ser	Ile	Tyr	Ser	Ile	Trp	Phe	Tyr	Asp	Lys
			100					105					110		
Asn	Asp	Cys	His	Arg	Ile	Ala	Lys	Leu	Met	Ala	Asp	Val	Val	Glu	Glu
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Glu	Thr	Arg	Arg	Ser	Gln	Gln	Ala	Ala	Arg	Asp	Lys	Gln	Ser	Pro	Ser
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Leu	Ser	Arg	Ala	Lys	Asp	Glu	Tyr	Glu	Arg	Asn	Gln	Met	Gly	Asp	Ser
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Thr	Ser	Leu	Pro	Lys	Glu	Gln	Pro	Ala	Val	Val	Gly	Leu	Asp	Ser	Glu
225					230					235					240
Glu	Met	Glu	Arg	Leu	Pro	Gly	Asp	Ala	Ser	Gln	Lys	Glu	Pro	Asn	Ser
			245						250					255	
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		260						265					270		
Thr	Leu	Gly	Val	Pro	Ser	Ala	Ala	His	His	Ser	Val	Gln	Pro	Glu	Ile
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Lys	His	Ala	Pro	Thr	Tyr	Thr	Ile	Pro	Leu	Ser	Pro	Val	Leu	Ser	Pro
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Thr	Leu	Pro	Ala	Glu	Ala	Pro	Thr	Ala	Gln	Val	Pro	Pro	Ser	Leu	Pro
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Ser Phe Ile Glu Pro Pro Ser Lys Thr Ala Ala Ala Arg Val Ala Ala  
435 440 445  
Ser Ala Ser Leu Ser Asn Met Val Leu Ala Pro Leu Gln Ser Met Gln  
450 455 460  
Gln Asn Gln Asp Pro Glu Val Phe Val Gln Pro Lys Val Leu Ser Ser  
465 470 475 480  
Ala Ile Pro Val Ala Gly Ala Pro Leu Val Thr Ala Thr Thr Thr Ala  
485 490 495  
Val Ser Ser Val Leu Leu Ala Pro Ser Val Phe Gln Gln Thr Val Thr  
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Arg Ser Ser Asp Leu Glu Arg Lys Ala Ser Ser Pro Ser Pro Leu Thr  
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Ile Gly Thr Pro Glu Ser Gln Arg Lys Pro Ser Ile Ile Leu Ser Lys  
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          35             40             45
Met His Ile Arg Lys Leu Leu Gln Lys Met Asp Arg Pro Asn Gly Leu
          50             55             60
Tyr Pro Asn Tyr Leu Asn Pro Arg Thr Gly Arg Trp Gly Gln Tyr His
          65             70             75             80
Thr Ser Val Gly Gly Leu Gly Asp Ser Phe Tyr Glu Tyr Leu Leu Lys
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Ala	Glu	Ile	Ala	Arg	Thr	Cys	His	Glu	Ser	Tyr	Asp	Arg	Thr	Ala	Leu
			180					185					190		
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	195						200					205			
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Gln	Trp	Gly	Trp	Glu	Ala	Ala	Leu	Ala	Ile	Glu	Lys	Tyr	Cys	Arg	Val
			245						250					255	
Asn	Gly	Gly	Phe	Ser	Gly	Val	Lys	Asp	Val	Tyr	Ser	Ser	Thr	Pro	Thr
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			20					25					30		
Gln	Asp	Thr	Ile	Ile	Tyr	Thr	Asp	Glu	Ser	Phe	Thr	Pro	Asp	Leu	Asn
		35					40					45			
Ile	Phe	Gln	Asp	Val	Leu	His	Arg	Asp	Thr	Leu	Val	Lys	Ala	Phe	Leu
	50					55				60					
Asp	Gln	Val	Phe	Gln	Leu	Lys	Pro	Gly	Leu	Ser	Leu	Arg	Ser	Thr	Phe
65				70				75						80	
Leu	Ala	Gln	Phe	Leu	Leu	Val	Leu	His	Arg	Lys	Ala	Leu	Thr	Leu	Ile
			85					90					95		
Lys	Tyr	Ile	Glu	Asp	Asp	Thr	Gln	Lys	Gly	Lys	Lys	Pro	Phe	Lys	Ser
		100					105					110			
Leu	Arg	Asn	Leu	Lys	Ile	Asp	Leu	Asp	Leu	Thr	Ala	Glu	Gly	Asp	Leu
	115					120					125				
Asn	Ile	Ile	Met	Ala	Leu	Ala	Glu	Lys	Ile	Lys	Pro	Gly	Leu	His	Ser
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<400> 12824

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			20					25					30		
Ile	Val	Leu	Val	Gly	Lys	Thr	Gly	Ala	Gly	Lys	Ser	Ala	Thr	Gly	Asn
		35					40					45			
Ser	Ile	Leu	Gly	Arg	Lys	Val	Phe	His	Ser	Gly	Thr	Ala	Ala	Lys	Ser
	50					55					60				
Ile	Thr	Lys	Lys	Cys	Glu	Lys	Arg	Ser	Ser	Ser	Trp	Lys	Glu	Thr	Glu
65					70					75					80
Leu	Val	Val	Val	Asp	Thr	Pro	Gly	Ile	Phe	Asp	Thr	Glu	Val	Pro	Asn
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Ala	Arg	Ser	Phe	Met	Ile	Leu	Ile	Phe	Thr	Arg	Lys	Asp	Asp	Leu	Gly
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		180					185						190		
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	195						200					205			
Ile	Gln	Arg	Val	Val	Arg	Glu	Asn	Lys	Glu	Gly	Cys	Tyr	Thr	Asn	Arg
	210					215					220				
Met	Tyr	Gln	Arg	Ala	Glu	Glu	Glu	Ile	Gln	Lys	Gln	Thr	Gln	Ala	Met
225					230					235					240
Gln	Glu	Leu	His	Arg	Val	Glu	Leu	Glu	Arg	Glu	Lys	Ala	Arg	Ile	Arg
			245						250					255	
Glu	Glu	Tyr	Glu	Glu	Lys	Ile	Arg	Lys	Leu	Glu	Asp	Lys	Val	Glu	Gln
		260					265						270		
Glu	Lys	Arg	Lys	Lys	Gln	Met	Glu	Lys	Lys	Leu	Ala	Glu	Gln	Glu	Ala
	275						280					285			
His	Tyr	Ala	Val	Arg	Gln	Gln	Arg	Ala	Arg	Thr	Glu	Val	Glu	Ser	Lys
	290					295					300				
Asp	Gly	Ile	Leu	Glu	Leu	Ile	Met	Thr	Ala	Leu	Gln	Ile	Ala	Ser	Phe

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<222> (119).. (1573)

<400> 12837

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Leu	Lys	Gln	Lys	Thr	Thr	Gln	Leu	Lys	Lys	Phe	Leu	Gly	Lys	Ser	Val
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Pro	Ser	Ser	Ser	Asp	Asp	Glu	Gly	Met	Pro	Tyr	Thr	Arg	Pro	Val	Lys
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Phe	Lys	Ala	Ala	His	Gly	Phe	Lys	Gly	Pro	Tyr	Asp	Phe	Asp	Gln	Ile
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Gln His Ile Asp Thr Ala Ile Ala Phe His Pro Arg Asp Asp Arg Tyr  
260 265 270  
Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp Asn Ile Pro  
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290 295 300  
Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala Val Ile Gly  
305 310 315 320  
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370 375 380  
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<212> PRT

<213> Homo sapiens

<400> 12842

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Leu Arg Pro Leu His Gly Ala Asn Pro Ser Leu Lys Ser Leu Cys Pro  
50 55 60  
His Ala Phe Ile Trp Arg Thr His Thr Ser Val Gln Thr Leu Arg Cys  
65 70 75 80  
Asp Cys Phe Arg Val Thr Ala Phe Ser Ala Ile Ser Leu Gly Leu Glu  
85 90 95  
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Gly Ala Leu Leu Met Pro Leu Ser Gln His Ser Ala His Asp Thr Arg  
115 120 125  
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<400> 12843

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 <212> PRT  
 <213> Homo sapiens

<400> 12844

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Ser	Ser	Pro	Ala	Lys	Lys	Thr	Arg	Arg	Cys	Gln	Arg	Gln	Glu	Ser	Lys	35	40	45	
Lys	Met	Pro	Val	Ala	Gly	Gly	Lys	Ala	Asn	Lys	Asp	Arg	Thr	Glu	Asp	50	55	60	
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Glu	Ser	Val	Lys	Ala	Leu	Leu	Leu	Lys	Gly	Lys	Ala	Pro	Val	Asp	Pro	85	90	95	
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Asp	Val	Tyr	Asp	Val	Met	Leu	Asn	Gln	Thr	Asn	Leu	Gln	Phe	Asn	Asn	115	120	125	
Asn	Lys	Tyr	Tyr	Leu	Ile	Gln	Leu	Leu	Glu	Asp	Asp	Ala	Gln	Arg	Asn	130	135	140	
Phe	Ser	Val	Trp	Met	Arg	Trp	Gly	Arg	Val	Gly	Lys	Met	Gly	Gln	His	145	150	155	160
Ser	Leu	Val	Ala	Cys	Ser	Gly	Asn	Leu	Asn	Lys	Ala	Lys	Glu	Ile	Phe	165	170	175	
Gln	Lys	Lys	Phe	Leu	Asp	Lys	Thr	Lys	Asn	Asn	Trp	Glu	Asp	Arg	Glu	180	185	190	
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Ala	Thr	Asn	Thr	Gln	Asp	Glu	Glu	Glu	Thr	Lys	Lys	Glu	Glu	Ser	Leu	210	215	220	
Lys	Ser	Pro	Leu	Lys	Pro	Glu	Ser	Gln	Leu	Asp	Leu	Arg	Val	Gln	Glu	225	230	235	240
Leu	Ile	Lys	Leu	Ile	Cys	Asn	Val	Gln	Ala	Met	Glu	Glu	Met	Met	Met	245	250	255	
Glu	Met	Lys	Tyr	Asn	Thr	Lys	Lys	Ala	Pro	Leu	Gly	Lys	Leu	Thr	Val	260	265	270	
Ala	Gln	Ile	Lys	Ala	Gly	Tyr	Gln	Ser	Leu	Lys	Lys	Ile	Glu	Asp	Cys	275	280	285	
Ile	Arg	Ala	Gly	Gln	His	Gly	Arg	Ala	Leu	Met	Glu	Ala	Cys	Asn	Glu	290	295	300	
Phe	Tyr	Thr	Arg	Ile	Pro	His	Asp	Phe	Gly	Leu	Arg	Thr	Pro	Pro	Leu	305	310	315	320

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Ile Arg Thr Gln Lys Glu Leu Ser Glu Lys Ile Gln Leu Leu Glu Ala  
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Leu Gly Asp Ile Glu Ile Ala Ile Lys Leu Val Lys Thr Glu Leu Gln  
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Ser Pro Glu His Pro Leu Asp Gln His Tyr Arg Asn Leu His Cys Ala  
355 360 365  
Leu Arg Pro Leu Asp His Glu Ser Tyr Glu Phe Lys Val Ile Ser Gln  
370 375 380  
Tyr Leu Gln Ser Thr His Ala Pro Thr His Ser Asp Tyr Thr Met Thr  
385 390 395 400  
Leu Leu Asp Leu Phe Glu Val Glu Lys Asp Gly Glu Lys Glu Ala Phe  
405 410 415  
Arg Glu Asp Leu His Asn Arg Met Leu Leu Trp His Gly Ser Arg Met  
420 425 430  
Ser Asn Trp Val Gly Ile Leu Ser His Gly Leu Arg Ile Ala Pro Pro  
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485 490 495  
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<212> PRT  
<213> Homo sapiens

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<212> PRT  
<213> Homo sapiens

<400> 12849  
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Gly Glu Gln Val Thr Ser Tyr Leu Thr Lys Lys Phe Ala Glu Leu Arg  
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Ser Pro Asn Glu Phe Lys Val Tyr Met Gly His Gly Gly Lys Pro Trp  
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Arg Thr Val Phe Gly Val Glu Pro Asp Leu Thr Arg Glu Gly Gly Ser  
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Lys	Leu	Asn	Arg	Tyr	Asn	Tyr	Ile	Glu	Gly	Thr	Lys	Met	Leu	Ala	Ala
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 <213> Homo sapiens

<220>  
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<400> 12850

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 <213> Homo sapiens

<400> 12851  
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 Asp Gly Glu Lys Gln Ala Glu Pro Val Val Val Leu Asp Pro Val Ser  
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 <213> Homo sapiens

<400> 12853  
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 Ile Thr Tyr Pro Phe Asp Gln Asn Arg Ile Val Gln Tyr Lys Ala Thr  
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 Ser Leu Glu Lys Gln His Lys His Asp Leu Leu Thr Glu Pro Asp Leu  
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 Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr Arg Ile Asp Pro  
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<220>  
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 <222> (143).. (1201)

<400> 12854

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<212> PRT

<213> Homo sapiens

<400> 12855

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<212> DNA  
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<222> (204).. (710)

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<212> PRT  
<213> Homo sapiens

<400> 12857  
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Pro Leu Ala Arg Thr Ala Thr Phe Ser Val Arg Thr Gly Lys Ser Ile  
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Gly Arg Lys Ala Trp Asn Pro Gly Ser Pro Arg Leu Pro Thr Ala His  
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Arg Pro Pro Gln Pro Gly Pro Ala Leu Arg Gly Ser Pro Thr Ser Ala  
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85 90 95  
Arg Pro Pro Thr Ser Ala Trp Pro Ser Ala Gln Arg Ala Ser His Leu  
100 105 110  
Gly Leu Ala Gln Arg Ala Glu Ser Leu Gln Asp Leu Val Leu Gln Gln  
115 120 125  
Val Leu Gln Ala Gly Pro Cys Leu Thr Arg Gly Arg Leu Leu Leu Leu  
130 135 140  
Phe Ile His Gln Asp Ile Gln His Leu Leu Gln Pro Pro Gly Asn Val  
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<211> 2221  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (122).. (1555)

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<210> 12859

<211> 478

<212> PRT

<213> Homo sapiens

<400> 12859

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20 25 30  
Asp Thr Asn Gly Ile Ile Lys Thr Ser Thr Thr Ala Glu Lys Thr Asp

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65					70					75					
Arg	Asp	Pro	Asn	Ser	Pro	Leu	Tyr	Ser	Val	Lys	Ser	Phe	Glu	Glu	Leu
85					90					95					
Arg	Leu	Lys	Pro	Gln	Leu	Leu	Gln	Gly	Val	Tyr	Ala	Met	Gly	Phe	Asn
100					105					110					
Arg	Pro	Ser	Lys	Ile	Gln	Glu	Asn	Ala	Leu	Pro	Met	Met	Leu	Ala	Glu
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Ala	Ala	Phe	Val	Leu	Ala	Met	Leu	Ser	Arg	Val	Glu	Pro	Ser	Asp	Arg
145					150					155					
Tyr	Pro	Gln	Cys	Leu	Cys	Leu	Ser	Pro	Thr	Tyr	Glu	Leu	Ala	Leu	Gln
165					170					175					
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180					185					190					
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195					200					205					
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210					215					220					
Ser	Lys	Leu	Lys	Phe	Ile	Asp	Pro	Lys	Lys	Ile	Lys	Val	Phe	Val	Leu
225					230					235					
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245					250					255					
Ile	Arg	Ile	Gln	Arg	Met	Leu	Pro	Arg	Asn	Cys	Gln	Met	Leu	Leu	Phe
260					265					270					
Ser	Ala	Thr	Phe	Glu	Asp	Ser	Val	Trp	Lys	Phe	Ala	Gln	Lys	Val	Val
275					280					285					
Pro	Asp	Pro	Asn	Val	Ile	Lys	Leu	Lys	Arg	Glu	Glu	Glu	Thr	Leu	Asp
290					295					300					
Thr	Ile	Lys	Gln	Tyr	Tyr	Val	Leu	Cys	Ser	Ser	Arg	Asp	Glu	Lys	Phe
305					310					315					
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325					330					335					
Ile	Phe	Cys	His	Thr	Arg	Lys	Thr	Ala	Ser	Trp	Leu	Ala	Ala	Glu	Leu
340					345					350					
Ser	Lys	Glu	Gly	His	Gln	Val	Ala	Leu	Leu	Ser	Gly	Glu	Met	Met	Val
355					360					365					
Glu	Gln	Arg	Ala	Ala	Val	Ile	Glu	Arg	Phe	Arg	Glu	Gly	Lys	Glu	Lys
370					375					380					
Val	Leu	Val	Thr	Thr	Asn	Val	Cys	Ala	Arg	Gly	Ile	Asp	Val	Glu	Gln
385					390					395					
Val	Ser	Val	Val	Ile	Asn	Phe	Asp	Leu	Pro	Val	Asp	Lys	Asp	Gly	Asn
405					410					415					
Pro	Asp	Asn	Glu	Thr	Tyr	Leu	His	Arg	Ile	Gly	Arg	Thr	Gly	Arg	Phe

	420		425		430										
Gly	Lys	Arg	Gly	Leu	Ala	Val	Asn	Met	Val	Asp	Ser	Lys	His	Ser	Met
	435						440					445			
Asn	Ile	Leu	Asn	Arg	Ile	Gln	Glu	His	Phe	Asn	Lys	Lys	Ile	Glu	Arg
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<211> 1925  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (73).. (1140)

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<211> 356  
<212> PRT  
<213> Homo sapiens

<400> 12861

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			20					25					30			
Thr	Ser	Gln	Ala	Leu	Asp	Thr	Val	Trp	Arg	Met	Ala	Lys	Gly	Phe	Val	
		35					40					45				
Met	Leu	Ala	Val	Ser	Phe	Leu	Val	Ala	Ala	Ile	Cys	Tyr	Phe	Arg	Arg	
	50					55					60					
Leu	His	Leu	Tyr	Ser	Gly	His	Lys	Leu	Lys	Trp	Trp	Ile	Gly	Tyr	Leu	
	65				70					75					80	
Gln	Arg	Lys	Phe	Lys	Arg	Asn	Leu	Ser	Val	Glu	Ala	Glu	Val	Asp	Leu	
				85					90					95		
Leu	Ser	Tyr	Cys	Ala	Arg	Glu	Trp	Lys	Gly	Glu	Thr	Pro	Arg	Asn	Lys	
			100					105					110			
Leu	Met	Arg	Lys	Ala	Tyr	Glu	Glu	Leu	Phe	Trp	Arg	His	His	Ile	Lys	
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Cys	Val	Arg	Gln	Val	Arg	Arg	Asp	Asn	Tyr	Asp	Ala	Leu	Arg	Ser	Val	
	130					135					140					
Leu	Phe	Gln	Ile	Phe	Ser	Gln	Gly	Ile	Ser	Phe	Pro	Ser	Trp	Met	Lys	
	145				150					155					160	
Glu	Lys	Asp	Ile	Val	Lys	Leu	Pro	Glu	Lys	Leu	Leu	Phe	Ser	Gln	Gly	
			165					170						175		
Cys	Asn	Trp	Ile	Gln	Gln	Tyr	Ser	Phe	Gly	Pro	Glu	Lys	Tyr	Thr	Gly	
		180						185					190			
Ser	Asn	Val	Phe	Gly	Lys	Leu	Arg	Lys	Tyr	Val	Glu	Leu	Leu	Lys	Thr	
	195						200					205				
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	210					215					220					
Met	Cys	Asn	Thr	Leu	Phe	Ser	Asp	Ala	Ile	Leu	Glu	Tyr	Lys	Leu	Tyr	
	225				230					235					240	
Glu	Ala	Leu	Lys	Phe	Ile	Met	Leu	Tyr	Gln	Val	Thr	Glu	Val	Tyr	Glu	
			245						250					255		
Gln	Met	Lys	Thr	Lys	Lys	Val	Ile	Pro	Ser	Leu	Phe	Arg	Leu	Leu	Phe	
		260						265					270			
Ser	Arg	Glu	Thr	Ser	Ser	Asp	Pro	Leu	Ser	Phe	Met	Met	Asn	His	Leu	
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 Phe Asn Ser Arg Asp Phe Glu Val Cys Tyr Pro Glu Glu Pro Leu Arg  
 325 330 335  
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 <211> 2120  
 <212> DNA  
 <213> Homo sapiens

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 <221> CDS  
 <222> (375).. (1190)

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 agtatgccaa gtacatggaa aaccatagca ttgaaggagt gaggcatgtc ttacagcagag 420  
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 <212> PRT  
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<400> 12863  
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 Ala Phe Glu Gln Gln Gly Asn Ile Asn Glu Ala Arg Asn Ile Leu  
 35 40 45  
 Lys Thr Phe Glu Glu Cys Val Leu Gly Leu Ala Met Val Arg Leu Arg  
 50 55 60  
 Arg Val Ser Leu Glu Arg Arg His Gly Asn Leu Glu Glu Ala Glu His  
 65 70 75 80  
 Leu Leu Gln Asp Ala Ile Lys Asn Ala Lys Ser Asn Asn Glu Ser Ser  
 85 90 95  
 Phe Tyr Ala Val Lys Leu Ala Arg His Leu Phe Lys Ile Gln Lys Asn  
 100 105 110  
 Leu Pro Lys Ser Arg Lys Val Leu Leu Glu Ala Ile Glu Arg Asp Lys  
 115 120 125  
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 Lys Val Glu Phe Leu Glu Asp Phe Gly Ser Asp Val Asn Lys Leu Leu  
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09629469-072800



-6590/13211-

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09629469.072800

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 <212> PRT  
 <213> Homo sapiens

<400> 12872

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Pro	Ala	Ser	Tyr	His	Gly	Ser	Thr	Ser	Pro	Arg	Val	Ser	Ser	Glu	Leu			
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Arg	Asp	Thr	Val	Lys	Ile	Pro	Lys	Lys	Lys	Glu	His	Gly	Ser	Leu	Pro			
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Gln	Thr	Asn	Pro	Trp	Gly	Gly	Pro	Ala	Ala	Pro	Ala	Ser	Thr	Ser	Asp			
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Phe	Gln	Val	Asn	Gln	Pro	Gln	Pro	Leu	Thr	Leu	Asn	Gln	Leu	Arg	Gly			

09629450 072800

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Ser	Pro Val	Leu Gly Thr	Ser Thr	Ser Phe Gly	Pro Gly Pro Gly Val
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Glu	Ser Met	Ala Val Ala	Ser Met Thr	Ser Ala Ala	Pro Gln Pro Ala
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Leu	Gly Ala Thr	Gly Ser Ser	Leu Thr Pro	Leu Gly Pro	Ala Met Met
545		550		555	560
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 <213> Homo sapiens

<400> 12873

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<210> 12874

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<222> (310).. (807)

<400> 12874

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<210> 12875  
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<212> PRT  
<213> Homo sapiens

<400> 12875

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Val Arg Gly Cys Arg Arg Leu Leu Leu Val Pro Gly Arg Pro Arg Ser			
	50	55	60
Arg Gly Cys Arg Leu Ala Gly Ala Lys Ala Cys Gly Gln Ala Val Thr			
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Glu Glu Gly Val Glu Leu Pro Val Asp Val Gly Gln Gly His Arg Lys			
	85	90	95
Arg Arg Val Leu Arg Pro Arg Ala Pro Trp Arg Gln Arg Glu Ala Gly			
	100	105	110
Pro Lys Ala Gly Phe Cys Thr Ala Pro Gly Gly Arg Leu Leu Lys Glu			
	115	120	125
Lys Ala Val Pro Trp Gln Val Val Gln Ala Pro Ala Pro Pro Ala Thr			
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<210> 12876  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (234).. (1211)

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<211> 326

<212> PRT

<213> Homo sapiens

<400> 12877

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Gly Pro Arg Glu Ala Leu Gly Leu Leu Arg Ala Leu Cys Arg Asp Trp  
35 40 45  
Pro Arg Pro Glu Val His Thr Lys Glu Gln Met Leu Glu Leu Leu Val  
50 55 60  
Leu Glu Gln Phe Leu Ser Ala Leu Pro Ala Asp Thr Gln Ala Trp Val  
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Cys Ser Arg Gln Pro Gln Ser Gly Glu Glu Ala Val Ala Leu Leu Glu  
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Glu Leu Trp Gly Pro Ala Ala Ser Pro Asp Gly Ser Ser Ala Thr Arg  
100 105 110  
Val Pro Gln Asp Val Thr Gln Gly Pro Gly Ala Thr Gly Gly Lys Glu  
115 120 125  
Asp Ser Gly Met Ile Pro Leu Gly Thr Ala Pro Gly Ala Glu Gly Pro  
130 135 140  
Ala Pro Gly Asp Ser Gln Ala Val Arg Pro Tyr Lys Gln Glu Pro Ser  
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Ser Pro Pro Leu Ala Pro Gly Leu Pro Ala Phe Leu Ala Ala Pro Gly  
165 170 175  
Thr Thr Ser Cys Pro Glu Cys Gly Lys Thr Ser Leu Lys Pro Ala His

09629469.072800



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<210> 12879

<211> 318

<212> PRT

<213> Homo sapiens

<400> 12879

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                35             40             45
Arg Gly His Leu Lys Arg Leu Gly Lys Thr Lys Trp Asp Ala His Lys
                50             55             60
Ser Pro Ile Cys Val Leu Asn Glu Met Met Gln Asn Glu Glu Lys Tyr
                65             70             75             80
Glu Lys Ile Leu Lys Ala Leu Asn Ser Arg Arg Ile Ile Pro Arg Pro
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Phe Val Ala Gln Lys Leu Ala Ser Ser Asp Asp Phe Ile Ser Gln Asn
                100            105            110
Val Ile Pro Leu Glu Ala Tyr Arg Asn Gly Leu Lys Thr Glu Ala Leu
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Ser Val Ser Ala Ser Glu Glu Glu Gly Leu Asn Phe Leu Asn Glu Tyr

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Ser Ala Ile Ser Pro Gln Lys Ile His Asn Gln Thr Ala Arg Lys Arg  
180 185 190  
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<212> PRT

<213> Homo sapiens

<400> 12882

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09625469.072600



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Ile Ser Thr Gly Ile Tyr Tyr Gly Trp Ala Ser Val Gly Ser Gly Asp
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<213> Homo sapiens

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Tyr	Ser	Gln	Thr	Met	Lys	Ser	Ser	Ala	Cys	Lys	Ile	Gln	Val	Ser	Cys	210	215	220	
Ser	Asn	Asn	Thr	His	Leu	Val	Ser	Glu	Asn	Lys	Glu	Gln	Thr	Thr	His	225	230	235	240
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<400> 12905

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<212> PRT

<213> Homo sapiens

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Asp Ala Ser Glu Ile Met Leu His Ile His Asn His Leu Ile Phe Asp
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Lys Ser Asp Lys Asn Lys Lys Trp Gly Lys Asp Ser Leu Phe Asn Lys
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<213> Homo sapiens

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Lys	Gly	Leu	Val	Pro	Gly	Leu	Val	Asn	Leu	Gly	Asn	Thr	Cys	Phe	Met	35	40	45	
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Arg	Gly	Ser	Pro	His	Pro	Thr	Ser	Asn	His	Trp	Lys	Ser	Gln	His	Pro	180	185	190	
Phe	His	Gly	Arg	Leu	Thr	Ser	Asn	Met	Val	Cys	Lys	His	Cys	Glu	His	195	200	205	
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Pro	Ala	Ala	Thr	Trp	Gly	His	Pro	Leu	Thr	Leu	Asp	His	Cys	Leu	His	225	230	235	240
His	Phe	Ile	Ser	Ser	Glu	Ser	Val	Arg	Asp	Val	Val	Cys	Asp	Asn	Cys	245	250	255	
Thr	Lys	Ile	Glu	Ala	Lys	Gly	Thr	Leu	Asn	Gly	Glu	Lys	Val	Glu	His	260	265	270	
Gln	Arg	Thr	Thr	Phe	Val	Lys	Gln	Leu	Lys	Leu	Gly	Lys	Leu	Pro	Gln	275	280	285	
Cys	Leu	Cys	Ile	His	Leu	Gln	Arg	Leu	Ser	Trp	Ser	Ser	His	Gly	Thr	290	295	300	

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Ala	Leu	Glu	Ser	Leu	Gln	Ser	Pro	Ala	Ile	Ser	Leu	Ser	Leu	Met	Lys		
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				165					170					175			
Val	Gly	Ser	Pro	Cys	Gly	Leu	Asn	Leu	Arg	Asn	Val	Leu	Trp	His	Gly		
			180					185					190				
Phe	Ala	Ser	Pro	Glu	Glu	Ile	Pro	Pro	Lys	Tyr	Cys	Ser	Met	Met	Ile		
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Leu	Leu	Thr	Ala	Gly	Leu	Gly	Gln	Leu	Leu	Lys	Ser	Tyr	Leu	Gln	Asn		
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Thr	Lys	Leu	Thr	Leu	Ala	His	Arg	Ser	Phe	Ile	Ser	Leu	Thr	Asn	Leu		
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Glu	Asp	Leu	Ile	Val	Phe	Pro	Asp	Val	Thr	Tyr	Glu	Val	Leu	Ser	Val		
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Asp	Cys	Ala	Ile	Leu	Leu	Leu	Thr	Gln	Leu	Glu	Thr	Gly	Leu	Arg	Asn		
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 Val Trp Ala Leu Leu Pro Phe Pro Glu Glu Leu Thr Arg Gln Ala Val  
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 Lys Met Thr Asp Glu Leu Tyr His His Met Pro Glu Asn Arg Cys Val  
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 <212> PRT  
 <213> Homo sapiens

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 Pro Lys Gln Phe Ala Phe Val Asn Phe Lys His Glu Val Ser Val Pro  
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 Tyr Ala Met Asn Leu Leu Asn Gly Ile Lys Leu Tyr Gly Arg Pro Ile  
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Ser Pro Ser Ser Arg Tyr Glu Arg Thr Met Asp Asn Met Thr Ser Ser  
115 120 125  
Ala Gln Ile Ile Gln Arg Ser Phe Ser Ser Pro Glu Asn Phe Gln Arg  
130 135 140  
Gln Ala Val Met Asn Ser Ala Leu Arg Gln Met Ser Tyr Gly Gly Lys  
145 150 155 160  
Phe Gly Ser Ser Pro Leu Asp Gln Ser Gly Phe Ser Pro Ser Val Gln  
165 170 175  
Ser His Ser His Ser Phe Asn Gln Ser Ser Ser Ser Gln Trp Arg Gln  
180 185 190  
Gly Thr Pro Ser Ser Gln Arg Lys Val Arg Met Asn Ser Tyr Pro Tyr  
195 200 205  
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210 215 220  
Ser Asp His His Tyr Arg Gly Lys Arg Asp Asp Phe Phe Tyr Glu Asp  
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<211> 1997

<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (425).. (1459)

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<213> Homo sapiens

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65 70 75 80  
Ala Val Val Pro Ile Ile Lys Thr Val Gly Leu Gly Leu Gly Ile Leu  
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Val	Asp	Lys	Leu	Ser	Thr
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Ala	Val	Ile	Ser	Gly	Val
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Tyr	Ile	Lys	Asp	His	Ser
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Ser	Gln	Tyr	Asp	Leu	Asp
225			230		235
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Leu	Ser	Ala	Val	Val	Ser
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Ile	Ala	Ala	Met	Trp	Gly
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<210> 12919  
 <211> 735  
 <212> PRT  
 <213> Homo sapiens

<400> 12919  
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<222> (230).. (1945)

<400> 12920

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<210> 12921

<211> 572

<212> PRT

<213> Homo sapiens

<400> 12921

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His	Gly	Phe	Lys	Glu	Leu	His	Gly	Arg	Ser	Phe	Asp	Asp	Pro	Ile	Val
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Gln	Thr	Glu	Arg	Ile	Arg	Leu	Pro	Tyr	Glu	Leu	Gln	Lys	Met	Pro	Asn
			85					90					95		
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			165					170						175	
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Glu	Lys	Pro	Arg	Asn	Val	Val	Phe	Ile	Asp	Met	Gly	His	Ser	Ala	Tyr
	195					200					205				
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	210				215					220					
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			245					250					255		
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Ser	Ile	Glu	Ile	Val	Gly	Gly	Ala	Thr	Arg	Ile	Pro	Ala	Val	Lys	Glu
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Asp	Glu	Ala	Val	Ala	Arg	Gly	Cys	Ala	Leu	Gln	Cys	Ala	Ile	Leu	Ser
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Cys Glu Val Phe Cys Lys Asn His Pro Ala Pro Phe Ser Lys Val Ile  
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Thr Phe His Lys Lys Glu Pro Phe Glu Leu Glu Ala Phe Tyr Thr Asn  
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Leu His Glu Val Pro Tyr Pro Asp Ala Arg Ile Gly Ser Phe Thr Ile  
450 455 460  
Gln Asn Val Phe Pro Gln Ser Asp Gly Asp Ser Ser Lys Val Lys Val  
465 470 475 480  
Lys Val Arg Val Asn Ile His Gly Ile Phe Ser Val Ala Ser Ala Ser  
485 490 495  
Val Ile Glu Lys Gln Asn Leu Glu Gly Asp His Ser Asp Ala Pro Met  
500 505 510  
Glu Thr Glu Thr Ser Phe Lys Asn Glu Asn Lys Asp Asn Met Asp Lys  
515 520 525  
Met Gln Val Asp Gln Glu Glu Gly His Gln Lys Cys His Ala Glu His  
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Thr Pro Glu Glu Glu Ile Asp His Thr Gly Ala Lys Thr Lys Ser Ala  
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Val Ser Asp Lys Gln Asp Arg Leu Asn Gln Thr Leu  
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<212> DNA  
<213> Homo sapiens

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gcggtagtat gaacagtgat tctaactcta tggcgtaaat tactttgaag agttcatttt 780  
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 <213> Homo sapiens

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 <222> (7).. (978)

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<211> 324

<212> PRT

<213> Homo sapiens

<400> 12924

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 35 40 45  
 Ser Leu Thr Arg Ser His Ser Val Gly Gly Pro Leu Gln Asn Ile Asp  
 50 55 60  
 Phe Thr Gln Arg Pro Phe His Gly Ile Ser Thr Val Ser Leu Pro Asn  
 65 70 75 80  
 Ser Leu Gln Glu Val Val Asp Pro Leu Gly Lys Arg Pro Asn Pro Pro  
 85 90 95  
 Pro Val Ser Val Pro Tyr Leu Ser Pro Leu Val Leu Arg Lys Glu Leu  
 100 105 110  
 Glu Ser Leu Leu Glu Asn Glu Gly Asp Gln Val Ile His Thr Ser Ser  
 115 120 125  
 Phe Ile Asn Gln His Pro Ile Ile Phe Trp Asn Leu Val Trp Tyr Phe  
 130 135 140  
 Arg Arg Leu Asp Leu Pro Ser Asn Leu Pro Gly Leu Ile Leu Thr Ser  
 145 150 155 160  
 Glu His Cys Asn Glu Gly Val Gln Leu Pro Leu Ser Ser Leu Ser Gln  
 165 170 175  
 Asp Ser Lys Leu Val Tyr Ile His Leu Leu Trp Asp Asn Ile Asn Leu  
 180 185 190  
 His Gln Glu Pro Arg Glu Pro Leu Tyr Val Ser Trp Arg Asn Phe Asn  
 195 200 205  
 Ser Glu Lys Lys Ser Ser Leu Leu Ser Glu Glu Gln Gln Glu Thr Ser  
 210 215 220  
 Thr Leu Val Glu Thr Ile Arg Gln Ser Ile Gln His Asn Asn Val Leu  
 225 230 235 240  
 Lys Pro Ile Asn Leu Leu Ser Gln Gln Met Lys Pro Gly Met Lys Arg  
 245 250 255

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Gln Arg Ser Leu Tyr Arg Glu Ile Leu Phe Leu Ser Leu Val Ser Leu  
 260 265 270  
 Gly Arg Glu Asn Ile Asp Ile Glu Ala Phe Asp Asn Glu Tyr Gly Ile  
 275 280 285  
 Ala Tyr Asn Ser Leu Ser Ser Glu Ile Leu Glu Arg Leu Gln Lys Ile  
 290 295 300  
 Asp Ala Pro Pro Ser Ala Ser Val Glu Trp Cys Arg Lys Cys Phe Gly  
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 Ala Pro Leu Ile

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 <212> DNA  
 <213> Homo sapiens

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 <222> (50).. (1705)

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<211> 552

<212> PRT

<213> Homo sapiens

<400> 12926

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		20						25					30		
Val	Pro	Gly	Ser	Leu	Ile	Ala	Ser	Ile	Ala	Ser	Leu	Lys	His	Gly	Gly
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Cys	Asn	Lys	Val	Leu	Arg	Glu	Leu	Val	Lys	His	Lys	Leu	Ile	Ala	Trp
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Glu	Arg	Thr	Lys	Thr	Val	Gln	Gly	Tyr	Arg	Leu	Thr	Asn	Ala	Gly	Tyr
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Lys	Pro	Ile	Asp	Tyr	Asn	Arg	His	Ala	Val	Val	Met	Glu	Leu	Ile	Asn
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225					230				235					240	
His	Ile	Thr	Met	Ile	Asp	Phe	Pro	Gln	Met	Val	Ser	Thr	Ser	His	Pro
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Asn	Ala	Glu	Trp	Tyr	Phe	Asp	Arg	Asp	Val	Lys	Cys	Ile	Lys	Asp	Phe
		260						265					270		
Phe	Met	Lys	Arg	Phe	Ser	Tyr	Glu	Ser	Glu	Leu	Phe	Pro	Thr	Phe	Lys

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Tyr Thr Lys Glu Met Gln Ala	Asp Asp Glu Leu Leu	His Pro Leu Gly
305	310	315
Pro Asp Asp Lys Asn Ile Glu	Thr Lys Glu Gly Ser	Glu Phe Ser Phe
325	330	335
Ser Asp Gly Glu Val Ala Glu	Lys Ala Glu Val Tyr	Arg Ser Glu Asn
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355	360	365
Ser Ser Gly Asp Pro Glu Gln	Ile Lys Glu Asp Ser	Leu Ser Glu Glu
370	375	380
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385	390	395
Glu Glu Ile Lys Gly Gln Val	Val Glu Asn Asn Ser	Val Thr Glu Phe
405	410	415
Ser Glu Glu Lys Asn Arg Thr	Glu Asn Tyr Asn Arg	Gln Asp Gly Gln
420	425	430
Arg Val Gln Gly Gly Val Pro	Ala Gly Ser Asp Glu	Tyr Glu Asp Glu
435	440	445
Cys Pro His Leu Ile Ala Leu	Ser Ser Leu Asn Arg	Glu Phe Arg Pro
450	455	460
Phe Arg Asp Glu Glu Asn Val	Gly Ala Met Asn Gln	Tyr Arg Thr Arg
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Gln Lys Ser Ala Val Arg Arg	Arg Leu Gln Lys Gly	Glu Ala Asn Ile
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<213> Homo sapiens

<220>

<221> CDS

<222> (43).. (1233)

<400> 12927

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<210> 12928

<211> 397

<212> PRT

<213> Homo sapiens

<400> 12928

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Ser Ala Val Pro Ser Met Leu Cys Leu Val Ala Asn Phe Leu Leu Val
          35           40           45
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09629469.072800

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	100	105
Gly Ser Phe Pro Met Arg Asn Ser Gln Ala Leu Ile Ser Gly Gly Ala		
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Met Gly Gly Thr Val Ser Ala Val Ala Ser Leu Val Asp Leu Ala Ala		
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Ser Ser Asp Val Arg Asn Ser Ala Leu Ala Phe Phe Leu Thr Ala Thr		
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Ile Phe Leu Val Leu Cys Met Gly Leu Tyr Leu Leu Leu Ser Arg Leu		
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Glu Tyr Ala Arg Tyr Tyr Met Arg Pro Val Leu Ala Ala His Val Phe		
	180	185
Ser Gly Glu Glu Glu Leu Pro Gln Asp Ser Leu Ser Ala Pro Ser Val		
	195	200
Ala Ser Arg Phe Ile Asp Ser His Thr Pro Pro Leu Arg Pro Ile Leu		
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Lys Lys Thr Ala Ser Leu Gly Phe Cys Val Thr Tyr Val Phe Phe Ile		
225	230	235
Thr Ser Leu Ile Tyr Pro Ala Val Cys Thr Asn Ile Glu Ser Leu Asn		
	245	250
Lys Gly Ser Gly Ser Leu Trp Thr Thr Lys Phe Phe Ile Pro Leu Thr		
	260	265
Thr Phe Leu Leu Tyr Asn Phe Ala Asp Leu Cys Gly Arg Gln Leu Thr		
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Ala Trp Ile Arg Val Pro Gly Pro Asn Ser Lys Ala Leu Pro Gly Phe		
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Val Leu Leu Arg Thr Cys Leu Ile Pro Leu Phe Val Leu Cys Asn Tyr		
305	310	315
Gln Pro Arg Val His Leu Lys Thr Val Val Phe Gln Ser Asp Val Tyr		
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Pro Ala Leu Leu Ser Ser Leu Leu Gly Leu Ser Asn Gly Tyr Leu Ser		
	340	345
Thr Leu Ala Leu Leu Tyr Gly Pro Lys Ile Val Pro Arg Glu Leu Ala		
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<212> DNA

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<213> Homo sapiens

<220>

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<222> (2).. (319)

<400> 12929

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<211> 106

<212> PRT

<213> Homo sapiens

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<400> 12930

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			20					25					30		
Gly	Ala	Ala	Val	Phe	Ser	Ser	Ser	Asp	Leu	Thr	Phe	Asp	Ala	Glu	Ala
			35				40					45			
Gln	Gly	Gln	Val	Arg	Arg	Pro	Arg	Pro	Ala	Gln	Ala	Val	Gly	Pro	Ser
		50				55			60						
Gly	Ala	Arg	Arg	Pro	Glu	Ala	Pro	Gly	Trp	Phe	Arg	Lys	Ser	Asp	Arg
		65			70				75						80
Ser	Gly	Arg	Ala	Gly	Thr	Gly	Ala	Trp	Ser	Gln	Trp	Pro	Gln	Ala	Asn
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<210> 12931

<211> 2448

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (628).. (2211)

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<211> 528

<212> PRT

<213> Homo sapiens

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Gln Tyr Ile Ser Gln Gln Glu Tyr Lys Pro Arg Trp Ser Gln Ile Ile
      35             40             45
Pro Lys Ser Thr Lys Gly Asp Gly Glu Asp Asn Arg Pro Gly Met Arg
      50             55             60
Gly Gly His Gln Met Val Ile Asp Val Gln Thr Glu Thr Val Tyr Leu
      65             70             75             80
Phe Gly Gly Trp Asp Gly Thr Gln Asp Leu Ala Asp Phe Trp Ala Tyr
      85             90             95
Ser Val Lys Glu Asn Gln Trp Thr Cys Ile Ser Arg Asp Thr Glu Lys
      100            105            110
Glu Asn Gly Pro Ser Ala Arg Ser Cys His Lys Met Cys Ile Asp Ile
      115            120            125
Gln Arg Arg Gln Ile Tyr Thr Leu Gly Arg Tyr Leu Asp Ser Ser Val
      130            135            140
Arg Asn Ser Lys Ser Leu Lys Ser Asp Phe Tyr Arg Tyr Asp Ile Asp

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Pro	Lys	Leu	Val	Phe	Asp	His	Gln	Met	Cys	Met	Asp	Ser	Glu	Lys His
				180					185					190
Met	Ile	Tyr	Thr	Phe	Gly	Gly	Arg	Ile	Leu	Thr	Cys	Asn	Gly	Ser Val
				195				200					205	
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Thr	Tyr	Leu	Asn	Asp	Phe	Phe	Ser	Tyr	Asp	Val	Asp	Ser	Asp	His Val
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Thr	Gly	Phe	Thr	Gln	Arg	Ala	Thr	Ile	Asp	Pro	Glu	Leu	Asn	Glu Ile
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His	Val	Leu	Ser	Gly	Leu	Ser	Lys	Asp	Lys	Glu	Lys	Arg	Glu	Glu Asn
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Val	Arg	Asn	Ser	Phe	Trp	Ile	Tyr	Asp	Ile	Val	Arg	Asn	Ser	Trp Ser
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Cys	Val	Tyr	Lys	Asn	Asp	Gln	Ala	Ala	Lys	Asp	Asn	Pro	Thr	Lys Ser
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Leu	Gln	Glu	Glu	Glu	Pro	Cys	Pro	Arg	Phe	Ala	His	Gln	Leu	Val Tyr
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Ser	Cys	Ser	Pro	Lys	Met	Arg	Leu	Asp	Asp	Phe	Trp	Ser	Leu	Lys Leu
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Cys	Arg	Pro	Ser	Lys	Asp	Tyr	Leu	Leu	Arg	His	Cys	Lys	Tyr	Leu Ile
			420					425					430	
Arg	Lys	His	Arg	Phe	Glu	Glu	Lys	Ala	Gln	Val	Asp	Pro	Leu	Ser Ala
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Leu	Lys	Tyr	Leu	Gln	Asn	Asp	Leu	Tyr	Ile	Thr	Val	Asp	His	Ser Asp
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Pro	Glu	Glu	Thr	Lys	Glu	Phe	Gln	Leu	Leu	Ala	Ser	Ala	Leu	Phe Lys
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<212> DNA  
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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 <211> 466  
 <212> PRT  
 <213> Homo sapiens

<400> 12957  
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 Lys Gln Ala Asn Cys Leu Glu Leu Pro Leu Asp Ser Cys Leu Gly Ala  
 35 40 45  
 Leu Leu Met Leu Val Thr Leu Thr Pro Cys Ala Gly Val Ser Val Ser



435 440 445  
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450 455 460  
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465

<210> 12958  
<211> 2286  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (82).. (582)

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09629469.072800

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<210> 12959  
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 <212> PRT  
 <213> Homo sapiens

<400> 12959  
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 35 40 45  
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 50 55 60  
 Gly Tyr Ala Tyr Thr Gln Gly Leu Ser Gly Ser Ile Leu Ser Ile Leu  
 65 70 75 80  
 Met Gly Ala Ser Ala Ile Thr Gly Ile Met Gly Thr Val Ala Phe Thr  
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 100 105 110  
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 Pro Gly Ser Pro Leu Asp Leu Ser Val Ser Pro Phe Glu Asp Ile Arg  
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<210> 12960  
 <211> 1891  
 <212> DNA  
 <213> Homo sapiens

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009220" 6942960

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<210> 12961  
 <211> 2077  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (280).. (1647)

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<210> 12962  
 <211> 456  
 <212> PRT  
 <213> Homo sapiens

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<400> 12962
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          20             25             30
Arg Met Ser Lys Gln Gly Arg Thr Ile Ile Phe Ser Ile His Gln Pro
          35             40             45
Arg Tyr Ser Ile Phe Lys Leu Phe Asp Ser Leu Thr Leu Leu Ala Ser
          50             55             60
Gly Arg Leu Met Phe His Gly Pro Ala Gln Glu Ala Leu Gly Tyr Phe
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Glu Ser Ala Gly Tyr His Cys Glu Ala Tyr Asn Asn Pro Ala Asp Phe

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009270" 59452950



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Glu	Thr	Lys	Ala	Glu	Leu	His	Gln	Leu	Ser	Gly	Gly	Glu	Lys	Lys	Lys										
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Lys	Ile	Thr	Val	Phe	Lys	Glu	Ile	Ser	Tyr	Thr	Thr	Ser	Phe	Cys	His										
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Val	Ile	Gly	Ala	Ile	Tyr	Phe	Gly	Leu	Lys	Asn	Asp	Ser	Thr	Gly	Ile										
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Gln	Asn	Arg	Ala	Gly	Val	Leu	Phe	Phe	Leu	Thr	Thr	Asn	Gln	Cys	Phe										
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Gly	Lys	Leu	Leu	Ser	Asp	Leu	Leu	Pro	Met	Arg	Met	Leu	Pro	Ser	Ile										
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Asp	Ala	Phe	Phe	Val	Met	Met	Phe	Thr	Leu	Met	Met	Val	Ala	Tyr	Ser										
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Ser	Gly	Leu	Leu	Val	Asn	Leu	Thr	Thr	Ile	Ala	Ser	Trp	Leu	Ser	Trp										
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Leu	Gln	Tyr	Phe	Ser	Ile	Pro	Arg	Tyr	Gly	Phe	Thr	Ala	Leu	Gln	His										
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Asn	Glu	Phe	Leu	Gly	Gln	Asn	Phe	Cys	Pro	Gly	Leu	Asn	Ala	Thr	Gly										
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<210> 12963  
<211> 2161  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (16).. (1911)

<400> 12963

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<210> 12964  
 <211> 632  
 <212> PRT  
 <213> Homo sapiens

<400> 12964

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<212> DNA

<213> Homo sapiens

<400> 12965

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<212> DNA

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tcgtctaata agtatggctt agattacctg aaaaatcaac cagcaagagt atgtgaacat 840
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 <211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 12972

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			20					25					30		
Lys	Asn	Leu	Ile	Glu	Asp	Ala	Gly	Asp	Tyr	Arg	Asp	Thr	Gln	Asp	Ala
		35					40					45			
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Tyr	Lys	Leu	Asn	Asn	Met	Leu	Ser	Leu	Ala	Gly	Met	Lys	Val	Arg	Lys
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Arg	Ser	Phe	Ile	Leu	Ser	Ala	Ser	Ser	Ala	Thr	Glu	Arg	Asp	Glu	Trp
				165					170					175	
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			180					185					190		
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Cys	Ser	Ser	Asn	Lys	Tyr	Gly	Leu	Asp	Tyr	Leu	Lys	Asn	Gln	Pro	Ala
			260					265					270		
Arg	Val	Cys	Glu	His	Cys	Phe	Gln	Glu	Leu	Gln	Lys	Leu	Asp	His	Gln
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	290				295						300				
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Lys	Ile	Pro	Ala	Ala	Leu	Lys	Glu	Val	Ser	Ala	Asn	Thr	Glu	Asp	Ser
			325						330					335	
Ser	Met	Ser	Gly	Tyr	Leu	Tyr	Arg	Ser	Lys	Gly	Asn	Lys	Lys	Pro	Trp
		340						345					350		
Lys	His	Phe	Trp	Phe	Val	Ile	Lys	Asn	Lys	Val	Leu	Tyr	Thr	Tyr	Ala
	355						360					365			
Ala	Ser	Glu	Asp	Val	Ala	Ala	Leu	Glu	Ser	Gln	Pro	Leu	Leu	Gly	Phe
	370					375					380				
Thr	Val	Ile	Gln	Val	Lys	Asp	Glu	Asn	Ser	Glu	Ser	Lys	Val	Phe	Gln
385					390					395				400	
Leu	Leu	His	Lys	Asn	Met	Leu	Phe	Tyr	Val	Phe	Lys	Ala	Glu	Asp	Ala
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<210> 12973

<211> 1748

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (113).. (721)

<400> 12973

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tcccccaaaa aagagatatt caaagaaaga tgcttgtgaa ctaattgaaa ggtacttaaa 360
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gaggcggcac tgttcccggg agaccgtcat caagcagacg atggagcggg agcgacagca 480
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 <213> Homo sapiens

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 35 40 45  
 Asn Leu Val Gly Glu Lys Leu Gln Trp Phe Gln Asn His Pro Asp Pro  
 50 55 60  
 Pro Lys Lys Arg Tyr Ser Lys Lys Asp Ala Cys Glu Leu Ile Glu Arg  
 65 70 75 80  
 Tyr Leu Asn Arg Phe Ser Ser Glu Leu Glu Gln Ile Glu Leu His Asn  
 85 90 95

Ser Ile Arg Asp Arg Gln Gly Arg Arg His Cys Ser Arg Glu Thr Val  
100 105 110  
Ile Lys Gln Thr Met Glu Arg Glu Arg Gln Gln Phe Glu Gly Tyr Gly  
115 120 125  
Leu Glu Ile Pro Asp Ile Leu Asn Ala Ser Asn Leu Lys Thr Phe Arg  
130 135 140  
Glu Trp Asp Phe Asp Leu Lys Lys Leu Pro Asn Ile Lys Met Arg Lys  
145 150 155 160  
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<212> DNA  
<213> Homo sapiens

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<222> (61).. (1326)

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gaccgccttg cctcctacct ggagaagggt cgcgccttg aggaggccaa catgaagctg 360  
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<211> 422

<212> PRT

<213> Homo sapiens

<400> 12976

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			20					25					30		
Thr	Val	His	Gly	Gly	Ala	Gly	Gly	Ala	Arg	Ile	Ser	Leu	Ser	Phe	Thr
		35					40					45			
Thr	Arg	Ser	Cys	Pro	Pro	Pro	Gly	Gly	Ser	Trp	Gly	Ser	Gly	Arg	Ser
	50					55				60					
Ser	Pro	Leu	Leu	Gly	Gly	Asn	Gly	Lys	Ala	Thr	Met	Gln	Asn	Leu	Asn
65				70					75					80	
Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Glu	Lys	Val	Arg	Ala	Leu	Glu	Glu	Ala
			85						90				95		
Asn	Met	Lys	Leu	Glu	Ser	Arg	Ile	Leu	Lys	Trp	His	Gln	Gln	Arg	Asp
			100					105					110		
Pro	Gly	Ser	Lys	Lys	Asp	Tyr	Ser	Gln	Tyr	Glu	Glu	Asn	Ile	Thr	His
		115				120						125			
Leu	Gln	Glu	Gln	Ile	Val	Asp	Gly	Lys	Met	Thr	Asn	Ala	Gln	Ile	Ile
		130				135					140				
Leu	Leu	Ile	Asp	Asn	Ala	Arg	Met	Ala	Val	Asp	Asp	Phe	Asn	Leu	Lys
145					150					155				160	
Tyr	Glu	Asn	Glu	His	Ser	Phe	Lys	Lys	Asp	Leu	Glu	Ile	Glu	Val	Glu
			165						170				175		
Gly	Leu	Arg	Arg	Thr	Leu	Asp	Asn	Leu	Thr	Ile	Val	Thr	Thr	Asp	Leu
		180						185					190		
Glu	Gln	Glu	Val	Glu	Gly	Met	Arg	Lys	Glu	Leu	Ile	Leu	Met	Lys	Glu
		195				200						205			
His	His	Glu	Gln	Glu	Met	Glu	Glu	His	His	Val	Pro	Ser	Asp	Phe	Asn
	210				215					220					
Val	Asn	Val	Lys	Val	Asp	Thr	Gly	Pro	Arg	Glu	Asp	Leu	Ile	Lys	Val
225					230					235				240	
Leu	Glu	Asp	Met	Arg	Gln	Glu	Tyr	Glu	Leu	Ile	Ile	Lys	Lys	Lys	His
			245						250				255		
Arg	Asp	Leu	Asp	Thr	Trp	Tyr	Lys	Glu	Gln	Ser	Ala	Ala	Met	Ser	Gln
		260						265					270		
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Tyr Ser Thr Lys Ser Ala	Leu Glu Asn Met Leu	Ser Glu Thr Gln Ser
305	310	315
Arg Tyr Ser Cys Lys Leu	Gln Asp Met Gln Glu	Ile Ile Ser His Tyr
325	330	335
Glu Glu Glu Leu Thr Gln	Leu Arg His Glu Leu	Glu Arg Gln Asn Asn
340	345	350
Glu Tyr Gln Val Leu Leu	Gly Ile Lys Thr His	Leu Glu Lys Glu Ile
355	360	365
Thr Thr Tyr Arg Arg Leu	Leu Glu Gly Glu Ser	Glu Gly Thr Arg Glu
370	375	380
Glu Ser Lys Ser Ser Met	Lys Val Ser Ala Thr	Pro Lys Ile Lys Ala
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 <213> Homo sapiens

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 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<400> 12978

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			20					25					30		
Ser	Ile	Pro	Ser	Gly	Thr	Leu	Thr	Pro	Val	Lys	Asp	Leu	Val	Lys	Tyr
		35					40					45			
Gln	Asn	Ser	Ser	Leu	Lys	Leu	Asn	Asp	His	Lys	Lys	Asn	Gln	Phe	Leu
		50				55					60				
Lys	Met	Thr	Thr	Phe	Asn	Asn	Lys	Asn	Ile	Phe	Gln	Ser	Thr	Met	Leu
					70					75				80	
Thr	Glu	Ala	Thr	Thr	Ser	Asn	Ser	Ser	Leu	Asp	Ile	Ser	Ala	Ile	Lys
					85					90				95	
Pro	Asn	Lys	Asp	Gly	Leu	Lys	Asn	Lys	Ala	Asn	Tyr	Glu	Ser	Pro	Gly
			100					105					110		
Lys	Ile	Phe	Leu	Arg	Met	Lys	Glu	Lys	Val	Leu	Arg	Asp	Lys	Gln	Glu
		115					120					125			
Gln	Pro	Ser	Arg	Asn	Ser	Ser	Leu	Leu	Glu	Pro	Gln	Lys	Ser	Gly	Asn
		130				135					140				
Asn	Glu	Thr	Phe	Thr	Pro	Asn	Arg	Val	Glu	Lys	Lys	Asn	Cys	Ser	Ile
					150					155				160	
Pro	Thr	Tyr	Val	Lys	Lys	Arg	Lys	Thr	Thr	Asn	His	Ser	Ser	Gln	Met

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165

170

175

Thr Val His

<210> 12979

<211> 1959

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (468).. (1934)

<400> 12979

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<400> 12980

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009270 69462960

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 Arg Thr Met Gln Leu Leu Leu Asp His Gly Ala Asn Ile Asp Ala Tyr  
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 Lys Cys Leu Ser Leu Leu Lys Phe Leu Met Asp Leu Gly Cys Asp Gly  
 385 390 395 400  
 Glu Pro Cys Phe Ser Cys Leu Tyr Gly Asn Gly Pro His Pro Pro Ala  
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 Pro Gln Pro Ser Ser Arg Phe Asn Asp Ala Pro Ala Ala Asp Lys Glu  
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 Pro Ser Val Val Gln Phe Cys Glu Phe Val Ser Ala Pro Glu Val Ser  
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 Arg Trp Ala Gly Pro Ile Ile Asp Val Leu Leu Asp Tyr Val Gly Asn  
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          35          40          45
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Pro Ser Thr Ser Gly Leu Gln Gln Val Ala Phe Gln Pro Gly Gln Lys
          65          70          75          80
Val Tyr Val Trp Tyr Gly Gly Gln Glu Cys Thr Gly Leu Val Glu Gln
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His Ser Trp Met Glu Gly Gln Val Thr Val Trp Leu Leu Glu Gln Lys
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Leu Gln Val Cys Cys Arg Val Glu Glu Val Trp Leu Ala Glu Leu Gln
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Gly Pro Cys Pro Gln Ala Pro Pro Leu Glu Pro Gly Ala Gln Ala Leu
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000220" 6942960

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09629469-072800

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<400> 12983

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09629469.072800

<400> 12984

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Phe	Glu	Asp	Met	Gln	Glu	Gln	Asn	Ile	Arg	Leu	Met	Gln	Gln	Leu	Arg
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000220" 69462960

<213> Homo sapiens

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Leu Lys Thr Leu Ser Asn Gly Pro Gln Ala Pro Arg Arg Ser Ala Pro  
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           50                          55                          60  
 Ser Ser Glu Glu His Glu Thr His Phe Gln Asn Pro Gly Asn Thr Arg  
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 Leu Gly Ser Ser Pro Ser Pro Pro Gly Gly Val Ser Ser Leu Pro Arg  
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 Glu Pro Val Ser Arg Pro Val Asp Tyr Gly Phe Val Ser Ala Leu Val  
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 Phe Leu Val Ser Gly Ile Leu Leu Val Val Thr Ala Tyr Ala Ile Pro  
       130                          135                          140  
 Arg Glu Ala Arg Val Asn Pro Asp Thr Val Thr Ala Arg Glu Met Glu  
       145                          150                          155                          160  
 Arg Leu Glu Met Tyr Tyr Ala Arg Leu Gly Ser His Leu Asp Arg Cys  
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 Ile Ile Ala Gly Leu Gly Leu Leu Thr Val Gly Gly Met Leu Leu Ser  
           180                          185                          190  
 Val Leu Leu Met Val Ser Leu Cys Lys Gly Glu Leu Tyr Arg Arg Arg  
           195                          200                          205  
 Thr Phe Val Pro Gly Lys Gly Ser Arg Lys Thr Tyr Gly Ser Ile Asn  
       210                          215                          220  
 Leu Arg Met Arg Gln Leu Asn Gly Asp Gly Gly Gln Ala Leu Val Glu  
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 <211> 2264  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (105).. (1769)

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<210> 12988  
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 <212> PRT  
 <213> Homo sapiens

<400> 12988  
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 Asp Val Met Leu Glu Asn Tyr Arg Asn Leu Val Ser Leu Asp Leu Ser  
 35 40 45  
 Arg Asn Cys Val Ile Lys Glu Leu Ala Pro Gln Gln Glu Gly Asn Pro  
 50 55 60  
 Gly Glu Val Phe His Thr Val Thr Leu Glu Gln His Glu Lys His Asp  
 65 70 75 80

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Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Lys Gly Phe Ser Val His  
 465 470 475 480  
 Ser Ser Leu Thr Thr His Gln Val Ile His Thr Gly Glu Lys Pro Tyr  
 485 490 495  
 Lys Cys Asn Glu Cys Gly Lys Ser Phe Ser Val Arg Pro Asn Leu Thr  
 500 505 510  
 Arg His Gln Ile Ile His Thr Gly Lys Lys Pro Tyr Lys Cys Ser Asp  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (165).. (1436)

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 taattttaaa gccgaaaatg ttggataaga aaaaacctac acctataata ccagagaaaa 600  
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<211> 424

<212> PRT

<213> Homo sapiens

<400> 12990

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			20					25					30		
Val	Ser	Ser	Ala	Ala	Asp	Ser	Val	Glu	Ser	Thr	Ala	Phe	Ile	Met	Glu
		35					40					45			
Gln	Lys	Glu	Asn	Met	Ile	Asp	Lys	Asp	Val	Glu	Leu	Ser	Val	Val	Leu
	50					55				60					
Pro	Gly	Asp	Ile	Ile	Lys	Ser	Thr	Thr	Val	His	Gly	Ser	Lys	Pro	Met
65					70				75					80	
Met	Asp	Leu	Leu	Ile	Phe	Leu	Cys	Ala	Gln	Tyr	His	Leu	Asn	Pro	Ser
			85						90					95	
Ser	Tyr	Thr	Ile	Asp	Leu	Leu	Ser	Ala	Glu	Gln	Asn	His	Ile	Lys	Phe
			100					105					110		
Lys	Pro	Asn	Thr	Pro	Ile	Gly	Met	Leu	Glu	Val	Glu	Lys	Val	Ile	Leu
		115				120						125			
Lys	Pro	Lys	Met	Leu	Asp	Lys	Lys	Lys	Pro	Thr	Pro	Ile	Ile	Pro	Glu
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Lys	Thr	Val	Arg	Val	Val	Ile	Asn	Phe	Lys	Lys	Thr	Gln	Lys	Thr	Ile
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Val	Arg	Val	Ser	Pro	His	Ala	Ser	Leu	Gln	Glu	Leu	Ala	Pro	Ile	Ile
				165					170					175	
Cys	Ser	Lys	Cys	Glu	Phe	Asp	Pro	Leu	His	Thr	Leu	Leu	Leu	Lys	Asp
			180					185					190		
Tyr	Gln	Ser	Gln	Glu	Pro	Leu	Asp	Leu	Thr	Lys	Ser	Leu	Asn	Asp	Leu
		195					200					205			
Gly	Leu	Arg	Glu	Leu	Tyr	Ala	Met	Asp	Val	Asn	Arg	Ala	Thr	Ser	Val
	210					215					220				
Thr	Val	Phe	Ser	Lys	Ser	Ser	Leu	Gln	Glu	Ser	Cys	Gln	Ile	Ser	Gln
225					230					235					240
Asn	Leu	Asp	Ile	Met	Lys	Glu	Lys	Glu	Asn	Lys	Gly	Phe	Phe	Ser	Phe
				245					250					255	
Phe	Gln	Arg	Ser	Lys	Lys	Lys	Arg	Asp	Gln	Thr	Ala	Ser	Ala	Pro	Ala
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Thr Pro Leu Val Asn Lys His Arg Pro Thr Phe Thr Arg Ser Asn Thr  
275 280 285  
Ile Ser Lys Pro Tyr Ile Ser Asn Thr Leu Pro Ser Asp Ala Pro Lys  
290 295 300  
Lys Arg Arg Ala Pro Leu Pro Pro Met Pro Ala Ser Gln Ser Val Pro  
305 310 315 320  
Gln Asp Leu Ala His Ile Gln Glu Arg Pro Ala Ser Cys Ile Val Lys  
325 330 335  
Ser Met Ser Val Asp Glu Thr Asp Lys Ser Pro Cys Glu Ala Gly Arg  
340 345 350  
Val Arg Ala Gly Ser Leu Gln Leu Ser Ser Met Ser Ala Gly Asn Ser  
355 360 365  
Ser Leu Arg Arg Thr Lys Arg Lys Ala Pro Ser Pro Pro Ser Lys Ile  
370 375 380  
Pro Pro His Gln Ser Asp Glu Asn Ser Arg Val Thr Ala Leu Gln Pro  
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Glu Leu Ser Ser Pro Gly Asn Ile  
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<210> 12991  
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<212> DNA  
<213> Homo sapiens

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2719

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<210> 12992  
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 <212> PRT  
 <213> Homo sapiens

<400> 12992  
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 Tyr Arg Ala Ile Gly Ser Lys His Leu Pro Ala Ser Asn Val Ser Phe  
 35 40 45  
 Leu His Phe Asp Ser His Pro Asp Leu Leu Ile Pro Val Asn Met Pro  
 50 55 60  
 Ala Asp Thr Val Phe Asp Lys Glu Thr Leu Phe Gly Glu Leu Ser Ile  
 65 70 75 80

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Glu	Asn	Trp	Ile	Met	Pro	Ala	Val	Tyr	Ala	Gly	His	Phe	Ser	His	Val	85	90	95
Ile	Trp	Phe	His	Pro	Thr	Trp	Ala	Gln	Gln	Ile	Arg	Glu	Gly	Arg	His	100	105	110
His	Phe	Leu	Val	Gly	Lys	Asp	Thr	Ser	Thr	Thr	Thr	Ile	Arg	Val	Thr	115	120	125
Ser	Thr	Asp	His	Tyr	Phe	Leu	Ser	Asp	Gly	Leu	Tyr	Val	Pro	Glu	Asp	130	135	140
Gln	Leu	Glu	Asn	Gln	Lys	Pro	Leu	Gln	Leu	Asp	Val	Ile	Met	Val	Lys	145	150	155
Pro	Tyr	Lys	Leu	Cys	Asn	Asn	Gln	Glu	Glu	Asn	Asp	Ala	Val	Ser	Ser	165	170	175
Ala	Lys	Lys	Pro	Lys	Leu	Ala	Leu	Glu	Asp	Ser	Glu	Asn	Thr	Ala	Ser	180	185	190
Thr	Asn	Cys	Asp	Ser	Ser	Pro	Glu	Gly	Leu	Glu	Lys	Asp	Thr	Ala	Thr	195	200	205
Gln	Arg	Ser	Asp	Gln	Thr	Cys	Leu	Glu	Pro	Ser	Cys	Ser	Cys	Ser	Ser	210	215	220
Glu	Asn	Gln	Glu	Cys	Gln	Thr	Ala	Ala	Ser	Thr	Gly	Glu	Ile	Leu	Glu	225	230	235
Ile	Leu	Lys	Lys	Gly	Lys	Ala	Phe	Val	Leu	Asp	Ile	Asp	Leu	Asp	Phe	245	250	255
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Lys	Ile	Leu	Gln	Glu	Leu	Tyr	Gln	Phe	Lys	Lys	Pro	Gly	Thr	Asn	Leu	275	280	285
Thr	Glu	Glu	Asp	Leu	Val	Asp	Ile	Val	Asp	Thr	Arg	Ile	His	Gln	Leu	290	295	300
Glu	Asp	Leu	Glu	Ala	Thr	Phe	Ala	Asp	Leu	Cys	Asp	Gly	Asp	Asp	Glu	305	310	315
Glu	Thr	Val	Gln	Arg	Trp	Ala	Ser	Asn	Pro	Gly	Met	Glu	Ser	Leu	Val	325	330	335
Pro	Leu	Val	Gln	Ser	Leu	Lys	Lys	Arg	Met	Glu	Val	Pro	Asp	Tyr	Glu	340	345	350
Met	Val	His	Gln	Ala	Gly	Leu	Thr	Cys	Asp	Tyr	Ser	Glu	Leu	Pro	His	355	360	365
His	Ile	Ser	Thr	Glu	Gln	Glu	Ile	Glu	Cys	Leu	Ile	Gln	Ser	Val	His	370	375	380
Tyr	Leu	Leu	Lys	Asn	Leu	Pro	Asn	Pro	Thr	Leu	Val	Thr	Ile	Ala	Arg	385	390	395
Ser	Ser	Leu	Asp	Asp	Tyr	Cys	Pro	Ser	Asp	Gln	Val	Asp	Thr	Ile	Gln	405	410	415
Glu	Lys	Val	Leu	Asn	Met	Leu	Arg	Ala	Leu	Tyr	Gly	Asn	Leu	Asp	Leu	420	425	430
Gln	Val	Tyr	Ala	Ala	Glu	Ser	Pro	Pro	Ser							435	440	

008270" 69462960



<210> 12993  
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<212> DNA  
<213> Homo sapiens

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<221> CDS  
<222> (909).. (1529)

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Leu Ala Asn Glu Ala Leu Leu Pro Thr Leu Ile Cys Asp Ile Ala Gly  
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 Arg Gly Asp Phe Phe Tyr His Ser Glu Asn Pro Lys Tyr Pro Glu Val

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Met Ala Met Phe Met	Gly Leu Asn Leu Met Thr	Arg Ile Leu Tyr Thr
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Lys Ala Phe Ala Phe	Cys Val Ala Thr Ser	Leu Thr Leu Thr Val
180	185	190
Ala Ala Gly Trp Leu	Phe Tyr Arg Pro Leu	Trp Ala Leu Ile Ala
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Lys Lys Leu Glu		
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 <213> Homo sapiens

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 <222> (59).. (832)

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 <213> Homo sapiens

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 35 40 45  
 Leu Ser Lys Met Pro His Ser Val Pro Gln Pro Leu Val Glu Lys Thr  
 50 55 60  
 Asp Asp Asp Val Ile Gly Gln Ala Pro Ala Glu Ala Ser Pro Pro Pro  
 65 70 75 80  
 Ile Ala Pro Lys Pro Val Thr Ile Pro Ala Ser Gln Val Ser Thr Gln  
 85 90 95  
 Asn Leu Lys Thr Leu Lys Thr Phe Gly Ala Pro Arg Pro Tyr Ser Ser  
 100 105 110  
 Ser Gly Pro Ser Pro Phe Ala Leu Ala Val Val Lys Arg Ser Gln Ser  
 115 120 125  
 Phe Ser Lys Glu Arg Thr Glu Ser Pro Ser Ala Ser Ala Leu Val Gln  
 130 135 140  
 Pro Pro Ala Asn Thr Glu Glu Gly Lys Thr His Ser Val Asn Lys Phe  
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Tyr Leu Ser Pro Gly Trp Gly Ser Ala Ser Glu Glu Glu Pro Ser Arg  
50 55 60  
Gly His Ser Gly Thr Thr Ala Ser Gly Gly Glu Asn Glu Arg Glu Asp  
65 70 75 80  
Leu Glu Gln Glu Trp Lys Pro Pro Asp Glu Glu Leu Ile Lys Lys Leu  
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Val Asp Gln Ile Glu Phe Cys Phe Ser Asp Glu Asn Leu Glu Lys Asp  
100 105 110  
Ala Phe Leu Leu Lys His Val Arg Arg Asn Lys Leu Gly Tyr Val Ser  
115 120 125  
Val Lys Leu Leu Thr Ser Phe Lys Lys Val Lys His Leu Thr Arg Asp  
130 135 140  
Trp Arg Thr Thr Ala His Ala Leu Lys Tyr Ser Val Val Leu Glu Leu  
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Asn Glu Asp His Arg Lys Val Arg Arg Thr Thr Pro Val Pro Leu Phe  
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Pro Asn Glu Asn Leu Pro Ser Lys Met Leu Leu Val Tyr Asp Leu Tyr  
180 185 190  
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Arg Arg His Ala Ala Thr Asn Lys Leu Ser Pro Ser Gly His Gln Asn				
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Leu Phe Leu Ser Pro Asn Ala Ser Pro Cys Thr Ser Pro Trp Ser Ser				
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Glu Gly Arg Leu Asn Cys Ser Thr Ser Pro Glu Ile Phe Arg Lys Cys				
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Met Asp Tyr Ser Ser Asp Ser Ser Val Thr Pro Ser Gly Ser Pro Trp				
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Gly Thr Ser Pro Leu Leu Ser Arg Lys Met Gln Thr Ala Asp Gly Leu				
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 <212> PRT  
 <213> Homo sapiens

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 Lys Glu Ile Tyr Asn Gln Val Asn Val Val Leu Lys Asp Ala Glu Gly  
 35 40 45  
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Gly	Ala	Val	Val	Pro	Leu
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		100		105	
Ser	Thr	Pro	Tyr	Ser	Pro
		115		120	
Ala	Lys	Gln	Phe	Ala	Glu
		130		135	
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Arg	Thr	Leu	Ser	Arg	Met
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		180		185	
Glu	Ala	Thr	Pro	Met	Leu
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Val	Ser	Glu	Asn	Lys	Asn
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Ser	Thr	Met	Ala	Ser	Val
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Arg	Ser	Arg	Phe	Thr	Asn
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		260		265	
Phe	Ala	Lys	Thr	Ser	Lys
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<213> Homo sapiens

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 Gln Glu Arg Leu Leu Asn Gln Gln Arg Glu Tyr Glu Ala Gln Gln Gln  
 420 425 430  
 Tyr Arg Gln His Ile Gln Val Phe Ile Asp Arg Phe Arg Tyr Asn Ala  
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Phe Thr Val Asn Gln Val Thr Ser Val Pro Glu Leu Phe Leu Thr Ala
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Arg Glu Asp Thr Asn Asn Leu Phe Ser Val Gln Phe Arg Thr Thr Pro
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Leu Tyr Pro Phe Ser Thr Gln Asn Pro Lys Asp Phe Gln Asn Leu Leu
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Gln	His	Lys	Leu	Thr	Leu	Ser	Met	Arg	Pro	Asp	Asp	Lys	Tyr	His	Glu
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009270" 69462960



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Ser	His	Met	Asp	Thr	Tyr	Glu	Gln	Gly	Val	Leu	Phe	Ser	Ser	Leu	Cys	660	665	670
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Thr	Pro	Gln	Gln	Met	Pro	Gln	Thr	Glu	Lys	Ala	Val	Glu	Asp	Phe	Leu	785	790	795
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Thr	Val	Glu	Lys	Pro	Val	Pro	Ser	Ser	Ser	Gly	Gly	Asp	Ala	His	Val	820	825	830
Pro	His	Gly	Ser	Gln	Val	Ile	Arg	Lys	Leu	Val	Met	Glu	Pro	Thr	Phe	835	840	845
Lys	Pro	Trp	Gln	Met	Lys	Thr	His	Phe	Leu	Met	Pro	Phe	Pro	Val	Asn	850	855	860
Tyr	Val	Gly	Glu	Cys	Ile	Arg	Thr	Val	Pro	Tyr	Thr	Asp	Pro	Asp	His	865	870	875
Ala	Ser	Leu	Lys	Ile	Leu	Ala	Arg	Leu	Met	Thr	Ala	Lys	Phe	Leu	His	885	890	895
Thr	Glu	Ile	Arg	Glu	Lys	Gly	Gly	Ala	Tyr	Gly	Gly	Gly	Ala	Lys	Leu	900	905	910
Ser	His	Asn	Gly	Ile	Phe	Thr	Leu	Tyr	Ser	Tyr	Arg	Asp	Pro	Asn	Thr	915	920	925
Ile	Glu	Thr	Leu	Gln	Ser	Phe	Gly	Lys	Ala	Val	Asp	Trp	Ala	Lys	Ser	930	935	940

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Gly	Lys	Phe	Thr	Gln	Gln	Asp	Ile	Asp	Glu	Ala	Lys	Leu	Ser	Val	Phe
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Ser	Thr	Val	Asp	Ala	Pro	Val	Ala	Pro	Ser	Asp	Lys	Gly	Met	Asp	His
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Phe	Leu	Tyr	Gly	Leu	Ser	Asp	Glu	Met	Lys	Gln	Ala	His	Arg	Glu	Gln
		980					985						990		
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Leu	Gly	Thr	Gly	Lys	Ser	Thr	His	Gly	Leu	Ala	Ile	Leu	Gly	Pro	Glu
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<400> 13007

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<212> PRT

<213> Homo sapiens

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			20					25					30				
Lys	Ala	Leu	Lys	His	Val	Leu	Ser	Asp	Leu	Ser	Thr	Lys	Leu	Ser	Ser		
		35					40					45					
Asn	Ala	Leu	Val	Phe	Arg	Ile	Cys	His	Ser	Ser	Val	Tyr	Ile	Trp	Pro		
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Ser	Ser	Asp	Ile	Asn	Thr	Ile	Pro	Gly	Glu	Leu	Thr	Asp	Ala	Ser	Ala		
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Cys	Lys	Asn	Ile	Leu	Arg	Phe	Val	Gln	Phe	Glu	Pro	Glu	Glu	Asp	Ile		
			85					90						95			
Lys	Arg	Lys	Phe	Met	Arg	Lys	Lys	Asp	Lys	Lys	Leu	Ser	Asp	Met	His		
			100					105					110				
Gln	Ile	Val	Asn	Ile	Asp	Leu	Met	Leu	Glu	Met	Ser	Thr	Ser	Leu	Ala		
		115				120						125					
Ala	Val	Thr	Pro	Ile	Ile	Glu	Arg	Glu	Ser	Gly	Gly	His	His	Tyr	Val		
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Asn	Met	Thr	Leu	Pro	Val	Asp	Ala	Val	Ile	Ser	Val	Ala	Pro	Glu	Glu		
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Thr	Trp	Gly	Lys	Val	Arg	Lys	Leu	Leu	Val	Asp	Ala	Ile	His	Asn	Gln		
			165					170						175			
Leu	Thr	Asp	Met	Glu	Lys	Cys	Ile	Leu	Lys	Tyr	Met	Lys	Gly	Thr	Ser		
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Ile	Val	Val	Pro	Glu	Pro	Leu	His	Phe	Leu	Leu	Pro	Gly	Lys	Lys	Asn		
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Leu	Val	Thr	Ile	Ser	Tyr	Pro	Ser	Gly	Ile	Pro	Asp	Gly	Gln	Leu	Gln		
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Ala	Tyr	Arg	Lys	Glu	Leu	His	Gly	Leu	Phe	Asn	Leu	Pro	His	Asp	Arg		
225					230					235					240		
Pro	Tyr	Phe	Lys	Arg	Ser	Asn	Ala	Tyr	His	Phe	Pro	Asp	Glu	Pro	Tyr		
			245					250					255				
Lys	Asp	Gly	Tyr	Ile	Arg	Asn	Pro	His	Thr	Tyr	Leu	Asn	Pro	Pro	Asn		
		260						265					270				
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 Ala Gly Asp Lys Pro Ala Thr Phe Val Gly Ser Arg Gln Trp Ile Gly  
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 Ser Ile Glu Val Gln Leu Val Leu Asn Gln Leu Ile Gly Ile Thr Ser  
 355 360 365  
 Lys Ile Leu Phe Val Ser Gln Gly Ser Glu Ile Ala Ser Gln Gly Arg  
 370 375 380  
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 385 390 395 400  
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 Thr Gly Gln Ile Lys Phe Leu Ile Leu Asp Pro His Tyr Thr Gly Ala  
 420 425 430  
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 Gly Asp Lys Pro Ile Lys Val Pro Thr Gly Ile Trp Gly Thr Ser Pro  
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 Gly Met Thr Val Val Pro Gly Ala Val Asp Ser Asp Tyr Glu Gly Glu

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65 70 75 80  
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<212> PRT

<213> Homo sapiens

<400> 13012

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Thr Trp Asn Asn Phe Leu His Phe Gln Val Glu Leu Cys Ile Ala Ala
  35          40          45
Ile Leu Ser His Ala Ala Arg Glu Glu Arg Thr Glu Ala Ser Gly Ser
  50          55          60
Glu Ser Arg Val Glu Pro Pro His Glu Asn Gly Asn Arg Ser Leu Glu
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Thr Pro Gln Pro Ala Ala Ser Leu Pro Asp Asn Thr Met Val Thr His
  85          90          95
Leu Phe Gln Lys Cys Cys Leu Val Gln Arg Ile Leu Glu Ala Trp Glu
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Ala Asn Asp His Thr Gln Ala Ala Gly Gly Met Arg Arg Gly Asn Met
 115          120          125
Gly His Leu Thr Arg Ile Ala Asn Ala Val Val Gln Asn Leu Glu Arg
 130          135          140
Gly Pro Val Gln Thr His Ile Ser Glu Val Ile Arg Gly Leu Pro Ala
 145          150          155          160
Asp Cys Arg Gly Arg Trp Glu Ser Phe Val Glu Glu Thr Leu Thr Glu
 165          170          175
Thr Asn Arg Arg Asn Thr Val Asp Leu Val Ser Thr His His Leu His
 180          185          190
Ser Ser Ser Glu Asp Glu Asp Ile Glu Gly Ala Phe Pro Asn Glu Leu
 195          200          205
Ser Leu Gln Gln Ala Phe Ser Asp Tyr Gln Ile Gln Gln Met Thr Ala
 210          215          220
Asn Phe Val Asp Gln Phe Gly Phe Asn Asp Glu Glu Phe Ala Asp Gln
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Asp	Ala	Pro	Gly	Ala	Gly	Ala	Pro	Pro	Ala	Pro	Gly	Lys	Lys	Glu	Ala		
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Gly	Pro	Arg	Cys	Ser	Ser	Pro	Val	Asp	Thr	Glu	Cys	Ser	His	Ala	Glu		
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Cys	Ala	Trp	Asn	Val	Cys	Val	Thr	Arg	Lys	Ala	Pro	Leu	Leu	Ala	Ser		
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Pro	Pro	Leu	Pro	Thr	Val	Ala	Arg	Thr	Glu	Glu	Ala	Val	Gly	Arg	Val		
			500					505						510			
Gly	Cys	Ala	Asp	Ser	Arg	Leu	Leu	Ser	Pro	Ala	Cys	Pro	Ala	Pro	Lys		
		515					520							525			
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Ala	Val	Ser	Ser	Ala	Leu	Ala	Val	Ala	Val	Pro	Leu	Gly	Pro	Ile	Met		
				565					570						575		
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Lys	Asp	Gly	Lys	Thr	Asp	Ala	Pro	Pro	Glu	Gly	Ala	Ala	Leu	Asn	Gly		
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Pro	Val																
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2325

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<212> PRT

<213> Homo sapiens

<400> 13014

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Lys	Thr	Ser	Pro	Val	Lys	Ser	Asn	Thr	Pro	Ala	Ala	His	Leu	Glu	Ile
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210						215					220				
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			260					265					270		
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Ser	Asn	Phe	Ser	Arg	Lys	Ser	Ser	Thr	His	Asn	Lys	Pro	Ser	Glu Gly
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Lys	Ala	Ala	Asn	Pro	Lys	Met	Val	Ser	Ser	Leu	Pro	Ser	Thr	Ala Asp
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Pro	Lys	Asn	Lys	Gly	Gly	Ala	Lys	Asn	Gln	Glu	Ala	Ser	Leu	Gly Met
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Lys	Thr	Pro	Glu	Ala	Pro	Ala	His	Ser	Glu	Lys	Pro	Arg	Arg	Arg Gln
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Arg	Val	Ser	Gln	Cys	Asn	Leu	Cys	Pro	Thr	Arg	Ile	Glu	Val	Ser Thr
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 acaaacaaaa gctatcattg gtctaggatt tgcctttatt cagcatccaa gtctaattgt 240  
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Gln	Glu	Val	Lys	Asn	Leu	Tyr	Asn	Asn	Ile	Leu	Ser	Asp	Lys	Asn	Ser
			35				40					45			
Ser	Val	Asn	Leu	Lys	Ile	Gln	Val	Leu	Lys	Asn	Leu	Gln	Thr	Tyr	Leu
	50					55					60				
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Val	Ala	Lys	Gln	Glu	Asp	Leu	Lys	Glu	Met	Gly	Asp	Val	Ser	Ser	Gly
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Met	Cys	Ser	Ser	Ile	Met	Gln	Leu	Tyr	Leu	Lys	Gln	Val	Leu	Glu	Ala
			100					105					110		

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Phe	Phe	His	Thr	Gln	Ser	Ser	Val	Arg	His	Phe	Ala	Leu	Asn	Val	Ile		
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His	Met	Lys	Ala	Val	Ala	Gly	Met	Lys	Met	Ser	Tyr	Arg	Val	Gln	Gln		
			180					185					190				
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		195					200					205					
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			260				265						270				
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		275					280					285					
Gln	Ser	Phe	Lys	Glu	Ser	Met	Val	Lys	Asp	Lys	Arg	Lys	Glu	Arg	Lys		
		290				295					300						
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<212> DNA  
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<222> (161).. (577)

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Ala Gly Leu His Tyr Phe Lys Asn Val Val Leu Val Gly Ser Leu Gln			
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Asn Leu Leu Arg Pro Val Leu Gln Ser Lys Asp Cys Asn Leu Val Arg			
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Tyr Asn Val Ile Asn Ala Leu Pro Asn Thr Ala Asp Ser Leu Ile Gly			
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<213> Homo sapiens

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His Leu Arg Glu Leu Ser Glu Glu Leu Arg Val Ser Lys Val Phe Ala
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Ala Ala Ala Phe Asp His Ile Cys Thr Phe Glu Val Lys Leu Asn Leu
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Phe Gln Arg His Ile Glu Glu Lys Asn Leu Thr Asp Phe Pro Ala Leu
             65             70             75             80
Arg Glu Val Val Asp Glu Leu Lys Gln Gln Asn Lys Glu Asp Glu Lys
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Ile Phe Asp Pro Asp Arg Tyr Gln Met Val Ile Cys Arg Leu Gln Lys
             100             105             110
Glu Phe Glu Arg His Phe Lys Asp Leu Arg Phe Ile Lys Lys Asp Leu
             115             120             125
Gly Leu Phe Ser Asn Pro Phe Asn Phe Lys Pro Glu Tyr Ala Pro Ile

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<400> 13024

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			20					25					30		
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Lys	Ser	Val	Glu	Glu	Leu	Glu	Asn	Ser	Asn	Lys	Asn	Val	Asp	Gly	Ser
	65				70				75					80	
Lys	Ser	Thr	His	Glu	Glu	Gln	Ser	Ser	Met	Ile	Gln	Thr	Gln	Val	Pro
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Asp	Ile	Tyr	Glu	Phe	Leu	Lys	Asp	Ala	Ser	Asp	Lys	Met	Gly	His	Ser
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245 250 255  
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370 375 380  
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385 390 395 400  
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Gly Pro Ser Phe Lys Thr Phe Ala Tyr Leu Ala Ala Lys Leu Asp Lys  
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 Gly Val Lys Ala Asp Met Leu Cys Asn Ser Gln Ser Asn Asp Ile Leu  
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Thr	Ala	Leu	Asp	Ser	His	Lys	Glu	Leu	Asn	Thr	Ser	Ser	Lys	Arg	Ala
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Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu
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-6769/13211-

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Pro Leu Thr Leu Thr Ala Ser Pro Thr Val Thr Leu Thr Ala Ala Ala  
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Pro Ala Ser Pro Glu Gln Ile Ile Val His Ala Leu Ser Pro Glu His  
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Val Ile Ile Gln Thr Val Ala Thr Glu Asp Ile Thr Ser Ser Ile Ser  
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Thr Ile Glu Glu Gln Val Asp Gln Thr Ile Asp Asp Glu Thr Ile Leu  
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Ser Pro Gln Leu Gly Thr Lys Asp Glu Asp Pro His Thr Ser Asp Leu			
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Val Gly Gly Leu Met Thr Asp Gly Leu Arg Arg Leu Ser Gly Asn Glu			
65	70	75	80
Tyr Val Phe Thr Lys Asn Val His Gln Ser His Ser His Leu Ala Met			
	85	90	95
Pro Ile Thr Ile Asn Asp Val Pro Pro Cys Ile Ser Gln Leu Leu Asp			
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Asn Glu Glu Ser Trp Asp Phe Asn Ile Phe Glu Leu Glu Ala Ile Thr			
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His Lys Arg Pro Leu Val Tyr Leu Gly Leu Lys Val Phe Ser Arg Phe			
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Gly Val Cys Glu Phe Leu Asn Cys Ser Glu Thr Thr Leu Arg Ala Trp			
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Phe Gln Val Ile Glu Ala Asn Tyr His Ser Ser Asn Ala Tyr His Asn			
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Ser Thr His Ala Ala Asp Val Leu His Ala Thr Ala Phe Phe Leu Gly			
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Lys Glu Arg Val Lys Gly Ser Leu Asp Gln Leu Asp Glu Val Ala Ala			
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Leu Ile Ala Ala Thr Val His Asp Val Asp His Pro Gly Arg Thr Asn			
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Ser Phe Leu Cys Asn Ala Gly Ser Glu Leu Ala Val Leu Tyr Asn Asp			
225	230	235	240
Thr Ala Val Leu Glu Ser His His Thr Ala Leu Ala Phe Gln Leu Thr			
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Val Lys Asp Thr Lys Cys Asn Ile Phe Lys Asn Ile Asp Arg Asn His			
	260	265	270
Tyr Arg Thr Leu Arg Gln Ala Ile Ile Asp Met Val Leu Ala Thr Glu			
	275	280	285
Met Thr Lys His Phe Glu His Val Asn Lys Phe Val Asn Ser Ile Asn			
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Lys Pro Met Ala Ala Glu Ile Glu Gly Ser Asp Cys Glu Cys Asn Pro			
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Ala Gly Lys Asn Phe Pro Glu Asn Gln Ile Leu Ile Lys Arg Met Met			
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-6773/13211-

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<212> PRT

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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Leu Glu Arg Leu Ser Ala Ser Ser Ser Ile Ser Ser Ala Asp Leu Phe
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Glu Glu Pro Arg Lys Gln Pro Ala Gly Asn Tyr Ser Leu Ser Ser Val
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0962946-07800



-6798/13211-

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<212> DNA

<213> Homo sapiens

<400> 13057

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09629469.072800

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<400> 13061

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<212> PRT  
<213> Homo sapiens

<400> 13062

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Arg	Ile Leu	Glu Phe Tyr	Ser Lys Leu	Gly Cys Phe	Glu Ile Ala Lys
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 <213> Homo sapiens

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Val	Ser	Gln	Ser	His	Ser	Ser	Ala	Ser	Gly	Pro	Trp	Glu	Asp	Glu	Gly	
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				85						90				95		
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			115				120					125				
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			130			135					140					
Val	Gly	Gly	Arg	Val	Ala	Arg	Met	Glu	Glu	Gln	Val	Thr	Lys	Ala	Glu	
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<212> PRT

<213> Homo sapiens

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		35				40						45			
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Glu	Asp	Cys	Leu	Ile	Leu	Gln	Asn	Leu	Leu	Lys	Asn	Asn	Asn	Ser	
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				660				665					670	
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (240).. (1346)

<400> 13069

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<211> 369

<212> PRT

<213> Homo sapiens

<400> 13070

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Ser	Ser	Thr	Ala	Glu	Asn	Ile	Ser	Asp	Asn	Asp	Ser	Thr	Glu	Asn	Glu	40	45	50	55
Ala	Pro	Glu	Pro	Arg	Glu	Arg	Val	Pro	Ser	Val	Ala	Glu	Ala	Pro	Gln	60	65	70	75
Leu	Arg	Pro	Ala	Gly	Thr	Ala	Ala	Ala	Lys	Thr	Ser	Arg	Gln	Glu	Cys	80	85	90	95
Gln	Leu	Ser	Arg	Glu	Ser	Gln	His	Ile	Pro	Thr	Ala	Glu	Gly	Ala	Ser	100	105	110	115
Ile	Ser	Ala	Cys	Leu	Ala	Leu	Glu	Lys	Tyr	Leu	Asp	Asn	Pro	Asn	Ala	120	125	130	135
Leu	Thr	Glu	Arg	Glu	Leu	Lys	Val	Ala	Tyr	Thr	Thr	Val	Leu	Gln	Glu	140	145	150	155
Trp	Leu	Arg	Leu	Ala	Cys	Arg	Ser	Asp	Ala	His	Pro	Glu	Leu	Val	Arg	160	165	170	175
Arg	His	Leu	Val	Thr	Phe	Arg	Ala	Met	Ser	Ala	Arg	Leu	Leu	Asp	Tyr	180	185	190	195
Val	Val	Asn	Ile	Ala	Asp	Ser	Asn	Gly	Asn	Thr	Ala	Leu	His	Tyr	Ser	200	205	210	215
Val	Ser	His	Ala	Asn	Phe	Pro	Val	Val	Gln	Gln	Leu	Leu	Asp	Ser	Gly	220	225	230	235
Val	Cys	Lys	Val	Asp	Lys	Gln	Asn	Arg	Ala	Gly	Tyr	Ser	Pro	Ile	Met	240	245	250	255
Leu	Thr	Ala	Leu	Ala	Thr	Leu	Lys	Thr	Gln	Asp	Asp	Ile	Glu	Thr	Val	260	265	270	275
Leu	Gln	Leu	Phe	Arg	Leu	Gly	Asn	Ile	Asn	Ala	Lys	Ala	Ser	Gln	Ala	280	285	290	295

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Gly Gln Thr Ala Leu Met Leu Ala Val Ser His Gly Arg Val Asp Val  
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Val Lys Ala Leu Leu Ala Cys Glu Ala Asp Val Asn Val Gln Asp Asp  
275 280 285  
Asp Gly Ser Thr Ala Leu Met Cys Ala Cys Glu His Gly His Lys Glu  
290 295 300  
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305 310 315 320  
Asp Arg Asp Gly Ser Thr Ala Leu Met Val Ala Leu Asp Ala Gly Gln  
325 330 335  
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<210> 13071

<211> 1787

<212> DNA

<213> Homo sapiens

<400> 13071

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 <212> DNA  
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<220>  
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 <222> (46).. (903)

<400> 13072

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1809

<210> 13073  
<211> 286  
<212> PRT  
<213> Homo sapiens

<400> 13073

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			20					25					30		
Glu	Ile	Ile	Asp	Asp	Cys	Val	Thr	Ser	Glu	Glu	Glu	Glu	Glu	Leu	Glu
		35					40					45			
Glu	Glu	Glu	Glu	Glu	Asp	Pro	Glu	Glu	Asp	Arg	Lys	Ser	Thr	Lys	Glu
	50					55					60				
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Cys	Gly	Lys	Val	Phe	Phe	Lys	Ile	Lys	Ser	Arg	Asn	Ala	His	Met	Lys
			180					185					190		
Thr	His	Arg	Gln	Gln	Glu	Glu	Gln	Gln	Arg	Gln	Lys	Ala	Gln	Lys	Ala
	195						200					205			
Ala	Phe	Ala	Ala	Glu	Met	Ala	Ala	Thr	Ile	Glu	Arg	Thr	Thr	Gly	Pro
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Pro	Ile	Lys	Asp	Val	Asp	Ile	Leu	Asp	Asp	Asp	Val	Val	Gln	Gln	Leu
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Gly	Gly	Val	Met	Glu	Glu	Ala	Glu	Val	Val	Asp	Thr	Asp	Leu	Leu	Leu
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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (16)..(834)

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<210> 13075  
<211> 273  
<212> PRT  
<213> Homo sapiens

<400> 13075  
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Asp His Gly Arg Arg Gly Arg Gly Glu Gly Arg Arg Ser Val Arg Tyr  
20 25 30  
Pro Val Pro Gln Pro Gln Ala Pro Arg Ser Arg Lys Arg Gly Gly Lys  
35 40 45  
Gly Ser Arg Leu Leu Thr Gln Thr Ser Glu Gly Arg Ser Ala Arg Arg

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 65 70 75 80  
 Cys Val Ala Lys Phe Lys Leu Ser Leu Arg Glu Cys Leu Pro Arg Arg  
 85 90 95  
 Arg Asn Thr Ala Ser Ser Gly His Ser Ala Lys Arg Gly Gly Gly Asp  
 100 105 110  
 Leu Arg Ala Glu Glu Arg Arg Pro Ser Trp Glu Arg Gly Gly Arg Ala  
 115 120 125  
 Ser Gly Gly Cys Ala Leu Gly Ala Pro Gly Arg Arg Gly Ser Gly Glu  
 130 135 140  
 Ser Ser Leu Gly Arg Ala Ser Gly Gly Ala Pro Gly Gly Ser Ser Pro  
 145 150 155 160  
 Gly Ala Cys Gly Pro Gly Pro Gly Val Cys Lys Lys Pro Trp Asn Glu  
 165 170 175  
 Ala Asp Pro Pro Val Gln Arg Trp Pro Arg Gln Gly Ser Pro Phe Trp  
 180 185 190  
 Ala Gly Tyr Gln Leu Gly Ala Glu Gly Gly Ala Glu Thr Val Val Pro  
 195 200 205  
 Ala Ala Arg Cys Arg Arg Val His Ala Ala Lys Pro His Thr Ala Pro  
 210 215 220  
 Lys Pro Arg Gly Ser Pro Ala Leu Ala Ala Ser Phe Pro Arg Glu Thr  
 225 230 235 240  
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 Val Arg Arg Ser Gln Ser His Ala Leu Arg Ala Val Gly Arg Val Gln  
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<210> 13076  
 <211> 1980  
 <212> DNA  
 <213> Homo sapiens

<400> 13076  
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<213> Homo sapiens

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<400> 13097

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<213> Homo sapiens

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		435					440				445								
Leu	Arg	Leu	Gly	Glu	Gln	Glu	Gly	Lys	Arg	Ser	Gly	Ser	Gly	Val	Asn				
	450					455					460								
Pro	Tyr	Cys	Gly	Leu	Ile	Glu	Glu	Ala	Tyr	Gly	Leu	Asp	Lys	Ile	Glu				
465					470					475					480				
Phe	Leu	Gln	Ser	His	Glu	Asn	Gln	Glu	Ile	Tyr	Gln	Lys	Ala	Phe	Asp				
			485					490						495					
Leu	Ile	Glu	His	Tyr	Phe	Gly	Val	Glu	Asp	Asp	Asp	Ser	Ser	Leu	Ala				
		500						505					510						
Pro	Gln	Val	Asp	Glu	Thr	Gln	Gln	Gln	Phe	Ile	Phe	Gln	Gln	Pro	Glu				
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 <212> DNA  
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<220>  
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 <222> (333).. (1178)

<400> 13099

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tcctttcatt	acagtatatg	attagaaatg	aagatggaca	aatatgtttt	gtggaatatt	1140

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 <212> PRT  
 <213> Homo sapiens

<400> 13100

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Ala	Ile	His	Phe	Arg	Glu	His	Ala	Thr	Cys	Phe	Ala	Thr	Lys	Asn	Gly	35	40	45	
Ile	Lys	Val	Thr	Val	Glu	Asn	Ala	Lys	Cys	Val	Gln	Ala	Asn	Ala	Phe	50	55	60	
Ile	Gln	Ala	Gly	Ile	Phe	Gln	Glu	Phe	Lys	Val	Gln	Glu	Glu	Ser	Val	65	70	75	80
Thr	Phe	Arg	Ile	Asn	Leu	Thr	Val	Leu	Leu	Asp	Cys	Leu	Ser	Ile	Phe	85	90	95	
Gly	Ser	Ser	Pro	Met	Pro	Gly	Thr	Leu	Thr	Ala	Leu	Arg	Met	Cys	Tyr	100	105	110	
Gln	Gly	Tyr	Gly	Tyr	Pro	Leu	Met	Leu	Phe	Leu	Glu	Glu	Gly	Gly	Val	115	120	125	
Val	Thr	Val	Cys	Lys	Ile	Asn	Thr	Gln	Glu	Pro	Glu	Glu	Thr	Leu	Asp	130	135	140	
Phe	Asp	Phe	Cys	Ser	Thr	Asn	Val	Ile	Asn	Lys	Ile	Ile	Leu	Gln	Ser	145	150	155	160
Glu	Gly	Leu	Arg	Glu	Ala	Phe	Ser	Glu	Leu	Asp	Met	Thr	Ser	Glu	Val	165	170	175	
Leu	Gln	Ile	Thr	Met	Ser	Pro	Asp	Lys	Pro	Tyr	Phe	Arg	Leu	Ser	Thr	180	185	190	
Phe	Gly	Asn	Ala	Gly	Ser	Ser	His	Leu	Asp	Tyr	Pro	Lys	Asp	Ser	Asp	195	200	205	
Leu	Met	Glu	Ala	Phe	His	Cys	Asn	Gln	Thr	Gln	Val	Asn	Arg	Tyr	Lys	210	215	220	
Ile	Ser	Leu	Leu	Lys	Pro	Ser	Thr	Lys	Ala	Leu	Val	Leu	Ser	Cys	Lys	225	230	235	240
Val	Ser	Ile	Arg	Thr	Asp	Asn	Arg	Gly	Phe	Leu	Ser	Leu	Gln	Tyr	Met	245	250	255	
Ile	Arg	Asn	Glu	Asp	Gly	Gln	Ile	Cys	Phe	Val	Glu	Tyr	Tyr	Cys	Cys	260	265	270	
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008220" 69462960

275

280

<210> 13101  
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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (47).. (1258)

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cctctcaaag ataattgctg tccttagagc tcattcatcc tattgcaactg atcctgatct 240  
tgttctggag ctgaagaatc ttattgtaat atttgcagat actttacagg gttatggttt 300  
tccagtgaac cgactttttg accttttatt tgaaataaga gaccaatata atgaaacact 360  
gottaagaaa tgggctggag ttttcaggga ctttttgaa gaagataatt acagcccat 420  
ccctgttgct aatgaagaag aatataaaat tgcctcagc aaatttccct ttcaagatcc 480  
agaccttgaa aagcagtcct tcccaaagaa attccccatg tctcagtcag tgcctcatat 540  
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gagctcaaca gaaatagacg atatgcttag aaaatcaaca aatctgctgc tgaccagaac 660  
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tcttgagcaa gtattgggtca tgatacagta atttgtttac agaattccaa aatacaatag 1740  
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<211> 404  
<212> PRT

09620469.02800

<213> Homo sapiens

<400> 13102

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Gly	Phe	Phe	Val	Val	Glu	Asp	His	Ile	Leu	His	Val	Thr	Gln	Gly	Leu
			20					25					30		
Val	Thr	Arg	Ala	Tyr	Thr	Asp	Glu	Leu	Trp	Asn	Met	Ala	Leu	Ser	Lys
		35				40					45				
Ile	Ile	Ala	Val	Leu	Arg	Ala	His	Ser	Ser	Tyr	Cys	Thr	Asp	Pro	Asp
	50					55					60				
Leu	Val	Leu	Glu	Leu	Lys	Asn	Leu	Ile	Val	Ile	Phe	Ala	Asp	Thr	Leu
65					70				75						80
Gln	Gly	Tyr	Gly	Phe	Pro	Val	Asn	Arg	Leu	Phe	Asp	Leu	Leu	Phe	Glu
				85				90						95	
Ile	Arg	Asp	Gln	Tyr	Asn	Glu	Thr	Leu	Lys	Lys	Trp	Ala	Gly	Val	
			100					105					110		
Phe	Arg	Asp	Ile	Phe	Glu	Glu	Asp	Asn	Tyr	Ser	Pro	Ile	Pro	Val	Val
	115						120					125			
Asn	Glu	Glu	Glu	Tyr	Lys	Ile	Val	Ile	Ser	Lys	Phe	Pro	Phe	Gln	Asp
	130					135					140				
Pro	Asp	Leu	Glu	Lys	Gln	Ser	Phe	Pro	Lys	Lys	Phe	Pro	Met	Ser	Gln
145					150					155					160
Ser	Val	Pro	His	Ile	Tyr	Ile	Gln	Val	Lys	Glu	Phe	Ile	Tyr	Ala	Ser
			165					170						175	
Leu	Lys	Phe	Ser	Glu	Ser	Leu	His	Arg	Ser	Ser	Thr	Glu	Ile	Asp	Asp
			180					185					190		
Met	Leu	Arg	Lys	Ser	Thr	Asn	Leu	Leu	Leu	Thr	Arg	Thr	Leu	Ser	Ser
	195					200					205				
Cys	Leu	Leu	Asn	Leu	Ile	Arg	Lys	Pro	His	Ile	Gly	Leu	Thr	Glu	Leu
	210					215					220				
Val	Gln	Ile	Ile	Ile	Asn	Thr	Thr	His	Leu	Glu	Gln	Ala	Cys	Lys	Tyr
225					230					235					240
Leu	Glu	Asp	Phe	Ile	Thr	Asn	Ile	Thr	Asn	Ile	Ser	Gln	Glu	Thr	Val
			245					250						255	
His	Thr	Thr	Arg	Leu	Tyr	Gly	Leu	Ser	Thr	Phe	Lys	Asp	Ala	Arg	His
			260					265					270		
Ala	Ala	Glu	Gly	Glu	Ile	Tyr	Thr	Lys	Leu	Asn	Gln	Lys	Ile	Asp	Glu
		275					280					285			
Phe	Val	Gln	Leu	Ala	Asp	Tyr	Asp	Trp	Thr	Met	Ser	Glu	Pro	Asp	Gly
	290					295					300				
Arg	Ala	Ser	Gly	Tyr	Leu	Met	Asp	Leu	Ile	Asn	Phe	Leu	Arg	Ser	Ile
305					310					315					320
Phe	Gln	Val	Phe	Thr	His	Leu	Pro	Gly	Lys	Val	Ala	Gln	Thr	Ala	Cys
			325					330						335	
Met	Ser	Ala	Cys	Gln	His	Leu	Ser	Thr	Ser	Leu	Met	Gln	Met	Leu	Leu
			340					345					350		
Asp	Ser	Glu	Leu	Lys	Gln	Ile	Ser	Met	Gly	Ala	Val	Gln	Gln	Phe	Asn

008240" 69462960

355	360	365
Leu Asp Val Ile Gln Cys Glu Tyr Glu Val Leu	Leu Cys Cys Pro Asp	
370	375	380
Trp Ser Gln Thr Pro Gly Leu Lys Ser Ser Ser	Cys Leu Gly Ile Pro	
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Lys Cys Trp Asn		400

<210> 13103  
 <211> 1446  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (42)..(1445)

<400> 13103

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aatttccaga	atggaatgat	ctcccaccag	gcacttcaca	agagaacatc	ccagtgaggc	480
cagttgtgat	gaattctgag	atgtggtaca	agcgtcacag	tattgcaatt	ggagagggtgc	540
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<212> PRT

<213> Homo sapiens

<400> 13104

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Trp	Asn	Glu	Thr	Val	Glu	Leu	Phe	Arg	Ala	Lys	Met	Pro	Leu	Arg	Lys
			20					25					30		
His	Arg	Cys	Arg	Phe	Lys	Ser	Tyr	Glu	His	Cys	Phe	Thr	Ala	Ala	Glu
		35					40					45			
Ala	Val	Asp	Trp	Leu	His	Glu	Leu	Leu	Arg	Cys	Ser	Gln	Asn	Phe	Gly
	50					55					60				
Pro	Glu	Val	Thr	Arg	Lys	Gln	Thr	Val	Gln	Leu	Leu	Lys	Lys	Phe	Leu
65					70					75					80
Lys	Asn	His	Val	Ile	Glu	Asp	Ile	Lys	Gly	Lys	Trp	Gly	Glu	Glu	Asp
				85					90					95	
Phe	Glu	Asp	Asn	Arg	His	Leu	Tyr	Arg	Phe	Pro	Pro	Ser	Ser	Pro	Leu
			100					105					110		
Lys	Pro	Tyr	Pro	Lys	Lys	Pro	Pro	Asn	Gln	Lys	Asp	Val	Ile	Lys	Phe
		115				120						125			
Pro	Glu	Trp	Asn	Asp	Leu	Pro	Pro	Gly	Thr	Ser	Gln	Glu	Asn	Ile	Pro
	130				135						140				
Val	Arg	Pro	Val	Val	Met	Asn	Ser	Glu	Met	Trp	Tyr	Lys	Arg	His	Ser
145					150					155					160
Ile	Ala	Ile	Gly	Glu	Val	Pro	Ala	Cys	Arg	Leu	Val	His	Arg	Arg	Gln
			165					170						175	
Leu	Thr	Glu	Ala	Asn	Val	Glu	Glu	Ile	Trp	Lys	Ser	Met	Thr	Leu	Ser
			180					185					190		
Tyr	Leu	Gln	Lys	Ile	Leu	Gly	Leu	Asp	Ser	Leu	Glu	Glu	Val	Leu	Asp
	195					200						205			
Val	Lys	Leu	Val	Asn	Ser	Lys	Phe	Ile	Ile	His	Asn	Val	Tyr	Ser	Val
	210					215					220				
Ser	Lys	Gln	Gly	Val	Val	Ile	Leu	Asp	Asp	Lys	Ser	Lys	Glu	Leu	Pro
225					230					235					240
His	Trp	Val	Leu	Ser	Ala	Met	Lys	Cys	Leu	Ala	Asn	Trp	Pro	Asn	Cys
				245				250						255	
Ser	Asp	Leu	Lys	Gln	Pro	Met	Tyr	Leu	Gly	Phe	Glu	Lys	Asp	Val	Cys
		260					265						270		
Lys	Thr	Ile	Ala	Asp	Tyr	Tyr	Gly	His	Leu	Lys	Glu	Pro	Leu	Leu	Thr
		275					280					285			
Phe	His	Leu	Phe	Asp	Ala	Phe	Val	Ser	Val	Leu	Gly	Leu	Leu	Gln	Lys
	290					295					300				
Glu	Lys	Val	Ala	Val	Glu	Ala	Phe	Gln	Ile	Cys	Cys	Leu	Leu	Leu	Pro
305					310					315					320
Pro	Glu	Asn	Arg	Arg	Lys	Leu	Gln	Leu	Leu	Met	Arg	Met	Met	Ala	Arg
				325				330						335	
Ile	Cys	Leu	Asn	Lys	Glu	Met	Pro	Pro	Leu	Cys	Asp	Gly	Phe	Gly	Thr
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009629469-072800

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 Asp Glu Val Asp Leu Asp Glu Leu Leu Ala Ala Arg Leu Val Thr Phe  
 370 375 380  
 Leu Met Asp Asn Tyr Gln Glu Ile Leu Lys Val Pro Leu Ala Leu Gln  
 385 390 395 400  
 Thr Pro Ile Glu Glu Arg Val Ala His Leu Arg Arg Val Gln Ile Lys  
 405 410 415  
 Tyr Pro Gly Ala Asp Met Asp Ile Thr Leu Ser Ala Pro Ser Phe Cys  
 420 425 430  
 Arg Gln Ile Ser Pro Glu Glu Phe Glu Tyr Gln Arg Ser Tyr Gly Ser  
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 <212> DNA  
 <213> Homo sapiens

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 <222> (190).. (1065)

<400> 13105  
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<213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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gttatagtot gottatctaa ttaccacttt gcaagcctta caagagagca caagttggcc 720
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<211> 441

<212> PRT

<213> Homo sapiens

<400> 13121

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			20					25					30		
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Arg	Asn	Gly	Tyr	Cys	Val	Tyr	Glu	Glu	Thr	Gly	Glu	Phe	Val	Ser	Ser
	50					55					60				
Asn	Ala	Ser	Glu	Val	Lys	Arg	Ile	Pro	Glu	Gly	Glu	Lys	Trp	Glu	Asp
65					70					75				80	
Gly	Pro	Cys	Lys	Val	Cys	Glu	Cys	Arg	Gly	Ala	Gln	Val	Thr	Cys	Tyr
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Glu	Pro	Ser	Cys	Pro	Pro	Cys	Pro	Val	Gly	Thr	Leu	Ala	Leu	Glu	Val
			100					105					110		
Lys	Gly	Gln	Cys	Cys	Pro	Asp	Cys	Thr	Ser	Val	His	Cys	His	Pro	Asp
	115					120						125			
Cys	Leu	Thr	Cys	Ser	Gln	Ser	Pro	Asp	His	Cys	Asp	Leu	Cys	Gln	Asp
	130					135					140				
Pro	Thr	Lys	Leu	Leu	Gln	Asn	Gly	Trp	Cys	Val	His	Ser	Cys	Gly	Leu
145					150					155				160	
Gly	Phe	Tyr	Gln	Ala	Gly	Ser	Leu	Cys	Ile	Ala	Cys	Gln	Pro	Gln	Cys
				165				170						175	
Ser	Thr	Cys	Thr	Ser	Gly	Leu	Glu	Cys	Ser	Ser	Cys	Gln	Pro	Pro	Leu
			180					185					190		
Leu	Met	Arg	His	Gly	Gln	Cys	Val	Pro	Thr	Cys	Gly	Asp	Gly	Phe	Tyr
	195					200						205			
Gln	Asp	Arg	His	Ser	Cys	Ala	Val	Cys	His	Glu	Ser	Cys	Ala	Gly	Cys
	210					215						220			
Trp	Gly	Pro	Thr	Glu	Lys	His	Cys	Leu	Ala	Cys	Arg	Asp	Pro	Leu	His
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09629469.072800



Val Leu Arg Asp Gly Gly Cys Glu Ser Ser Cys Gly Lys Gly Phe Tyr  
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Asn Arg Gln Gly Thr Cys Ser Ala Cys Asp Gln Ser Cys Asp Ser Cys  
260 265 270  
Gly Pro Ser Ser Pro Arg Cys Leu Thr Cys Thr Glu Lys Thr Val Leu  
275 280 285  
His Asp Gly Lys Cys Met Ser Glu Cys Pro Gly Gly Tyr Tyr Ala Asp  
290 295 300  
Ala Thr Gly Arg Cys Lys Val Cys His Asn Ser Cys Ala Ser Cys Ser  
305 310 315 320  
Gly Pro Thr Pro Ser His Cys Thr Ala Cys Ser Pro Pro Lys Ala Leu  
325 330 335  
Arg Gln Gly His Cys Leu Pro Arg Cys Gly Glu Gly Phe Tyr Ser Asp  
340 345 350  
His Gly Val Cys Lys Ala Cys His Ser Ser Cys Leu Ala Cys Met Gly  
355 360 365  
Pro Ala Pro Ser His Cys Thr Gly Cys Lys Lys Pro Glu Glu Gly Leu  
370 375 380  
Gln Val Glu Gln Leu Ser Gly Val Gly Ile Pro Ser Gly Glu Cys Leu  
385 390 395 400  
Ala Gln Cys Arg Ala His Phe Tyr Leu Glu Ser Thr Gly Ile Cys Glu  
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<222> (353).. (1423)

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008220" 69462960

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 <211> 357  
 <212> PRT  
 <213> Homo sapiens

<400> 13123

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			20					25					30		
Lys	Leu	Phe	Thr	Ser	Lys	Ser	Gln	Leu	His	Val	His	Lys	Arg	Ile	His
			35					40					45		
Thr	Gly	Glu	Lys	Pro	Tyr	Val	Cys	Asn	Lys	Cys	Gly	Lys	Ala	Phe	Thr
			50				55				60				
Asn	Arg	Ser	Asn	Leu	Ile	Thr	His	Gln	Lys	Thr	His	Thr	Gly	Glu	Lys
			65			70				75				80	
Ser	Tyr	Ile	Cys	Ser	Lys	Cys	Gly	Lys	Ala	Phe	Thr	Gln	Arg	Ser	Asp
			85						90					95	
Leu	Ile	Thr	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys
			100					105					110		
Asn	Thr	Cys	Gly	Lys	Ala	Phe	Thr	Gln	Lys	Ser	Asn	Leu	Asn	Ile	His
			115					120					125		
Gln	Lys	Ile	His	Thr	Gly	Glu	Arg	Gln	Tyr	Glu	Cys	His	Glu	Cys	Gly
			130				135					140			
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008220" 69462960

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	180		185		190	
Pro Tyr Glu Cys Ser Asp Cys Gly Lys Ser Phe Thr Ser Lys Ser Gln						
	195		200		205	
Leu Leu Val His Gln Pro Val His Thr Gly Glu Lys Pro Tyr Val Cys						
	210		215		220	
Ala Glu Cys Gly Lys Ala Phe Ser Gly Arg Ser Asn Leu Ser Lys His						
225		230		235		240
Gln Lys Thr His Thr Gly Glu Lys Pro Tyr Ile Cys Ser Glu Cys Gly						
	245		250		255	
Lys Thr Phe Arg Gln Lys Ser Glu Leu Ile Thr His His Arg Ile His						
	260		265		270	
Thr Gly Glu Lys Pro Tyr Glu Cys Ser Asp Cys Gly Lys Ser Phe Thr						
	275		280		285	
Lys Lys Ser Gln Leu Gln Val His Gln Arg Ile His Thr Gly Glu Lys						
	290		295		300	
Pro Tyr Val Cys Ala Glu Cys Gly Lys Ala Phe Ser Asn Arg Ser Asn						
305		310		315		320
Leu Asn Lys His Gln Thr Thr His Thr Gly Asp Lys Pro Tyr Lys Cys						
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Gly Ile Cys Gly Lys Gly Phe Val Gln Lys Ser Val Phe Ser Val His						
	340		345		350	
Gln Ser Ser His Ala						
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 <212> DNA  
 <213> Homo sapiens

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agaaaag

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<210> 13125  
 <211> 2675  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (363).. (1187)

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<210> 13126

<211> 275

<212> PRT

<213> Homo sapiens

<400> 13126

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Gln Asp Gly Arg Val His Leu Thr Val Val Tyr Phe Gly Lys Glu Glu
          35             40             45
Ile Asn Glu Val Lys Gly Val Leu Glu Asn Thr Ser Lys Ala Ala Asn
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<400> 13130

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Ser	Thr	Ala	Val	Lys	Glu	Arg	Pro	Ala	Ser	Ser	Glu	Lys	Val	Lys	Gly
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Leu	Lys	Glu	Leu	Gln	Asn	Arg	Leu	Arg	Arg	Lys	Arg	Glu	Gln	Glu	Pro
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305 310 315 320  
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Gly Cys Cys His Val Ala Gln Pro Asp Ser Val Tyr Cys Ser Asn Asp  
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Ala Cys Glu Ser Ser Thr Pro Ser Trp Ala Ser Asp His Asn Tyr Asn  
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Ala Val Lys Pro Glu Lys Thr Ala Ala Pro Ser Pro Ser Leu Leu Tyr  
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35 40 45  
Gly Ser Leu Phe Arg Thr Asp Gln Asn Pro Thr Tyr Phe Leu Arg Arg  
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<222> (292).. (768)

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His Trp Lys Gly Arg Ala Arg Trp Leu Met Pro Val Ile Pro Ala Leu  
35 40 45  
Trp Glu Ala Lys Ala Gly Arg Ser Pro Glu Val Arg Ser Ser Lys Pro  
50 55 60  
Ala Trp Pro Thr Trp Arg Asn Pro Ile Phe Thr Lys Asn Thr Lys Ile  
65 70 75 80  
Ser Gln Val Leu Glu Leu Phe Leu Asn Tyr Gln Ser Leu Ile Cys Ala  
85 90 95  
Leu Glu Lys Gln Lys Arg Gln Lys Gly Ser Leu Ala Ile Phe Cys Trp  
100 105 110  
Ser Phe Gln Gly Gly Cys Val Ser Lys Arg Pro Asp Val Pro Ser Leu  
115 120 125  
Lys Ser Gln Lys Pro Lys Arg Lys Arg Ile Thr Gly Arg Lys Arg Leu  
130 135 140  
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145

150

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<212> DNA  
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ttaaagcagg gtctgtgtgt acaattttta aacgggtaat atgtcatgct cttagtctcat 720  
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ttccagaaaag taccagaagg tcattttata caacaggaga ttggttcctg ccagatgac 840  
agaaaatggg agctctgtct agttgtcctt aagtctgact gacttcagtg gctcataacc 900  
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<211> 103  
<212> PRT  
<213> Homo sapiens

<400> 13136  
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20 25 30  
Val Pro Ser Leu His His Arg Ala Leu Asp Ala Glu Glu Glu Ala Cys  
35 40 45  
Leu His Ser Cys Ala Gly Lys Leu Ile His Ser Asn His Arg Leu Met

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50 55 60  
Ala Ala Tyr Val Gln Leu Met Pro Ala Leu Val Gln Arg Arg Ile Ala  
65 70 75 80  
Asp Tyr Glu Ala Ala Ser Ala Val Pro Gly Val Ala Ala Glu Gln Pro  
85 90 95  
Gly Val Ser Pro Ser Gly Ser  
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<210> 13137  
<211> 2115  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (197).. (1225)

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gttttcaaat aatgtggcctt caaagatttt aaaaactttt gtagatagga aaaatttggg 180  
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taaaaagggg acagatgttc tgccatcaca aattgaccaa cagaattctg tttctcctga 360  
tactccagta agaaaagaca cgttacagac agtgagttca agtccagtcg cagaaaatctc 420  
cagagagggt gttaaattttg ttttggctaa aagtaaattct tccagatggg agacaaaatc 480  
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gaaaccatct ccttttaccg caaatccaca tatgaaccaa tccagtaact acttaaaaca 600  
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gaaaataagt tcctctgttg atgcaacaac tgttacttca caacagtggt ttttcagaga 780  
ccaagaacca aagatccata atgagatggc atcaacatca gataaagggt cccaaggaag 840  
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cagtgacacc accggagtta gaagaaacca ttcgagatga aaaaataaga agacttaagc 1440  
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 <211> 343  
 <212> PRT  
 <213> Homo sapiens

<400> 13138

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			20					25					30		
Leu	Leu	Ala	Lys	Lys	Gly	Thr	Asp	Val	Leu	Pro	Ser	Gln	Ile	Asp	Gln
		35					40					45			
Gln	Asn	Ser	Val	Ser	Pro	Asp	Thr	Pro	Val	Arg	Lys	Asp	Thr	Leu	Gln
	50					55					60				
Thr	Val	Ser	Ser	Ser	Pro	Val	Thr	Glu	Ile	Ser	Arg	Glu	Val	Val	Asn
	65				70					75					80
Ile	Val	Leu	Ala	Lys	Ser	Lys	Ser	Ser	Gln	Met	Glu	Thr	Lys	Ser	Leu
				85					90					95	
Ser	Asn	Thr	Gln	Leu	Ala	Ser	Met	Ala	Asn	Leu	Arg	Ala	Glu	Lys	Asn
			100				105						110		
Lys	Val	Glu	Lys	Pro	Ser	Pro	Ser	Thr	Thr	Asn	Pro	His	Met	Asn	Gln
		115					120					125			
Ser	Ser	Asn	Tyr	Leu	Lys	Gln	Ser	Lys	Thr	Leu	Phe	Thr	Asn	Pro	Ile
		130				135					140				
Phe	Pro	Val	Gly	Phe	Ser	Thr	Gly	His	Asn	Ala	Pro	Arg	Lys	Val	Thr
					150					155					160
Ala	Val	Ile	Tyr	Ala	Arg	Lys	Gly	Ser	Val	Leu	Gln	Ser	Ile	Glu	Lys
				165					170					175	
Ile	Ser	Ser	Ser	Val	Asp	Ala	Thr	Thr	Val	Thr	Ser	Gln	Gln	Cys	Val
			180					185					190		
Phe	Arg	Asp	Gln	Glu	Pro	Lys	Ile	His	Asn	Glu	Met	Ala	Ser	Thr	Ser
		195				200						205			
Asp	Lys	Gly	Ala	Gln	Gly	Arg	Asn	Asp	Lys	Lys	Asp	Ser	Gln	Gly	Arg
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Ser	Asn	Lys	Ala	Leu	His	Leu	Lys	Ser	Asp	Ala	Glu	Phe	Lys	Lys	Ile
	225				230					235					240
Phe	Gly	Leu	Thr	Lys	Asp	Leu	Arg	Val	Cys	Leu	Thr	Arg	Ile	Pro	Asp
				245					250					255	
His	Leu	Thr	Ser	Gly	Glu	Gly	Phe	Asp	Ser	Phe	Ser	Ser	Leu	Val	Lys

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260 265 270  
Ser Gly Thr Tyr Lys Glu Thr Glu Phe Met Val Lys Glu Gly Glu Arg  
275 280 285  
Lys Gln Gln Asn Phe Asp Lys Lys Arg Lys Ala Lys Thr Asn Lys Lys  
290 295 300  
Met Asp His Ile Lys Lys Arg Lys Thr Glu Asn Ala Tyr Asn Ala Ile  
305 310 315 320  
Ile Asn Gly Glu Ala Asn Val Thr Gly Ser Gln Leu Gln Tyr Phe Thr  
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<212> DNA  
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<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 13140  
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20 25 30  
Glu Pro Arg Arg Gln Lys Leu Gln Arg Ala Glu Ile Ala Pro Leu His  
35 40 45  
Thr Ser Leu Gly Asp Ser Thr Arg Leu Arg Leu Lys Lys Lys Lys Lys  
50 55 60  
Lys Lys Lys Lys Arg Glu Lys Arg Asn Lys Arg Lys Glu Gly Ser Val  
65 70 75 80  
Gly Ala Trp Ile Gly Glu Asn Ile Pro Glu Arg Asp Arg Gly Gln Asn  
85 90 95  
Arg Lys Val Thr Leu Asn Trp Asn Trp  
100 105

<210> 13141  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (83).. (517)

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gatcaatctt accagagggc cctcagggct gggcttcaac atcgtcgggtg ggacagatca 180  
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<210> 13142  
 <211> 145  
 <212> PRT  
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 Gln Gln Tyr Val Ser Asn Asp Ser Gly Ile Tyr Val Ser Arg Ile Lys  
 35 40 45  
 Glu Asn Gly Ala Ala Ala Leu Asp Gly Arg Leu Gln Glu Gly Asp Lys  
 50 55 60  
 Ile Leu Ser Ala Asn Gly Gln Asp Leu Lys Asn Leu Leu His Gln Asp  
 65 70 75 80  
 Ala Val Asp Leu Phe Arg Asn Ala Gly Tyr Ala Val Ser Leu Arg Val  
 85 90 95  
 Gln His Arg Leu Gln Val Gln Asn Gly Pro Ile Gly His Arg Gly Glu  
 100 105 110  
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 130 135 140  
 Leu  
 145

<210> 13143  
 <211> 1626  
 <212> DNA  
 <213> Homo sapiens

<400> 13143  
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<210> 13144  
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 <212> DNA  
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<213> Homo sapiens

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85 90 95  
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<213> Homo sapiens

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 <212> PRT  
 <213> Homo sapiens

<400> 13153  
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	690					695					700				
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Gln	Met	Lys	Glu	Ser	Glu	Gln	Glu	Leu	His	Glu	Gly	Ala	Lys	Thr	Leu
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<400> 13154

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 <213> Homo sapiens

<400> 13155

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			100					105					110		
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<210> 13156  
<211> 1600  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (121).. (1242)

<400> 13156

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<212> PRT  
<213> Homo sapiens

<400> 13157

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Ser	Ala	Cys	Leu	Asp	His	Ile	His	Asn	Leu	Arg	Leu	Glu	Phe	Glu	Pro	
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Ser	Val	Gly	Pro	Gly	Ser	Val	Leu	Glu	Leu	Glu	Ala	Cys	Pro	Arg		
			180					185					190			
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225					230					235				240		
Ala	Trp	Val	Ala	Leu	Arg	Arg	Arg	His	Pro	Gly	Leu	Ala	Val	Glu	Leu	
			245						250					255		
Glu	Leu	Glu	Pro	Ala	Leu	Pro	Ala	Glu	Ser	Val	Thr	Arg	Val	Leu	Gln	
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Pro	Ala	Val	Pro	Val	Ala	Ala	Leu	Arg	Leu	Asn	Leu	Ser	Gly	Asp	Thr	
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Cys	Val	Val	Ser	His	Ser	Val	Leu	Asp	Ala	Phe	Arg	Ala	His	Cys	Pro	
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Arg	Leu	Arg	Thr	Tyr	Thr	Leu	Lys	Leu	Thr	Arg	Glu	Pro	His	Pro	Trp	
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<211> 2414  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1851).. (2066)

<400> 13158

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<212> PRT  
<213> Homo sapiens

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Pro Asn Met Thr Glu Arg Glu Ala Asn Phe Ile Met Lys Val Ile  
35 40 45  
Gln Ser Cys Phe Leu Ser Asn Arg Ser Arg Thr Tyr Asn Met Ile Gln  
50 55 60  
Tyr Tyr Gln Asn Asp Ile Pro Tyr  
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<211> 1891  
<212> DNA  
<213> Homo sapiens

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<221> CDS  
<222> (457).. (1437)

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<211> 327  
<212> PRT  
<213> Homo sapiens

<400> 13161  
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Leu Ser Ile Lys Pro Gln Glu Lys Ser Glu Gly Leu Gln Leu Asn Phe  
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Gln Gln Asn Val Asp Asp Ala Met Thr Val Leu Pro Lys Leu Ala Thr  
50 55 60  
Gly Leu Asp Val Asn Val Arg Phe Thr Gly Val Ser Asp Phe Glu Tyr  
65 70 75 80  
Thr Pro Glu Cys Ser Val Phe Asp Leu Leu Gly Ile Pro Leu Tyr His  
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Gly Trp Leu Val Asp Pro Gln Ser Pro Glu Ala Val Arg Ala Val Gly  
100 105 110  
Lys Leu Ser Tyr Asn Gln Leu Val Glu Arg Ile Ile Thr Cys Lys His  
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Ser Ser Asp Thr Asn Leu Val Thr Glu Gly Leu Ile Ala Glu Gln Phe  
130 135 140  
Pro Glu Thr Thr Ala Ala Gln Leu Thr Tyr His Gly Leu Cys Glu Leu  
145 150 155 160  
Thr Ala Ala Ala Lys Glu Gly Glu Leu Ser Val Phe Phe Arg Asn Asn  
165 170 175  
His Phe Ser Thr Met Thr Lys His Lys Ser His Leu Tyr Leu Leu Val

009220.69462960



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 <212> PRT  
 <213> Homo sapiens

<400> 13163

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			20					25					30		
Ala	Phe	Val	Ser	Val	Ser	Arg	Asp	Arg	Thr	Thr	Arg	Leu	Trp	Ala	Pro
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Asp	Ser	Pro	Asn	Arg	Ser	Phe	Thr	Glu	Met	His	Cys	Met	Ser	Gly	His
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Ser	Asn	Phe	Val	Ser	Cys	Val	Cys	Ile	Ile	Pro	Ser	Ser	Asp	Ile	Tyr
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Pro	His	Gly	Leu	Ile	Ala	Thr	Gly	Gly	Asn	Asp	His	Asn	Ile	Cys	Ile
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Phe	Ser	Leu	Asp	Ser	Pro	Met	Pro	Leu	Tyr	Ile	Leu	Lys	Gly	His	Lys
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			115				120					125			
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			130			135					140				
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Pro	Glu	Gln	Gly	Leu	Met	Leu	Thr	Gly	Ser	Ala	Asp	Lys	Thr	Val	Lys
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008240" 69462960

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Cys	Val	Arg	Gly	Leu	Ala	Ile	Leu	Ser	Glu	Thr	Glu	Phe	Leu	Ser	Cys
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Pro	Asn	Cys	Arg	Asp	Phe	Val	Thr	Thr	Ala	Glu	Asp	Arg	Ser	Leu	Arg
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Ile	Trp	Lys	His	Gly	Glu	Cys	Ala	Gln	Thr	Ile	Arg	Leu	Pro	Ala	Gln
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Ala	Ser	Asp	Gly	Ile	Ile	Arg	Val	Phe	Thr	Glu	Ser	Glu	Asp	Arg	Thr
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305					310					315					320
Thr	Ile	Asp	Ser	Lys	Thr	Gly	Asp	Leu	Gly	Asp	Ile	Asn	Ala	Glu	Gln
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Val	Ser	Glu	Gly	Arg	Trp	Ile	Lys	Ile	Gly	Asp	Val	Val	Gly	Ser	Ser
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Lys	Leu	Pro	Tyr	Asn	Thr	Ser	Asp	Asp	Pro	Trp	Leu	Thr	Ala	Tyr	Asn
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Phe	Leu	Gln	Lys	Asn	Asp	Leu	Asn	Pro	Met	Phe	Leu	Asp	Gln	Val	Ala
		435					440					445			
Lys	Phe	Ile	Ile	Asp	Asn	Thr	Lys	Gly	Gln	Met	Leu	Gly	Leu	Gly	Asn
	450					455					460				
Pro	Ser	Phe	Ser	Asp	Pro	Phe	Thr	Gly	Gly	Gly	Arg	Tyr	Val	Pro	Gly
465					470					475					480
Ser	Ser	Gly	Ser	Ser	Asn	Thr	Leu	Pro	Thr	Ala	Asp	Pro	Phe	Thr	Gly
				485					490					495	
Ala	Gly	Arg	Tyr	Val	Pro	Gly	Ser	Ala	Ser	Met	Gly	Thr	Thr	Met	Ala
			500					505					510		
Gly	Val	Asp	Pro	Phe	Thr	Gly	Ser	Ser	Ala	Tyr	Arg	Ser	Ala	Ala	Ser
		515					520					525			
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 <211> 2137  
 <212> DNA  
 <213> Homo sapiens

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 <221> CDS  
 <222> (241).. (1860)

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<210> 13165  
 <211> 540  
 <212> PRT  
 <213> Homo sapiens

<400> 13165

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Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln
           35           40           45
Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro
           50           55           60
Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala
           65           70           75           80
Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly
           85           90           95
Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala
           100          105          110
Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe
           115          120          125
Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala
           130          135          140
Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro
           145          150          155          160
Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser
           165          170          175
Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly
           180          185          190
Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val
           195          200          205
Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Gln
           210          215          220
Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly
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His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala
           245          250          255
Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser
           260          265          270
Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala
           275          280          285
Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu
           290          295          300
Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe
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Phe Leu Arg Leu Lys Gly Ala Asp Lys Val Ala Glu Leu Val His Ile  
370 375 380  
Leu Lys His Arg Asp Arg Ala Glu Arg Thr Gly Pro Ser Gly Thr Val  
385 390 395 400  
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435 440 445  
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Gly Val Glu Leu Val Val Asn Tyr Asp Phe Pro Thr Leu Gln Asp  
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485 490 495  
Gly Thr Val Ile Ser Phe Val Thr His Pro Trp Asp Val Ser Leu Val  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (83).. (685)

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09629459-072800

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cctgagagtc ccatcgccctg cagcacctgg agacccacct cccaccccag tgcactcttt 780
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<210> 13167

<211> 201

<212> PRT

<213> Homo sapiens

<400> 13167

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Met Leu Asn Thr Ser Leu His Asn Pro Asn Ala Arg Asp Arg Pro Pro
 1             5             10             15
Phe Glu Arg Phe Val Ser Met Asn Arg Gly Ile Asn Asn Gly Ser Asp
      20             25             30
Leu Pro Glu Asp Gln Leu Arg Asn Leu Phe Asp Ser Ile Lys Ser Glu
      35             40             45
Pro Phe Ser Ile Pro Glu Asp Gly Asn Asp Leu Thr His Thr Phe
      50             55             60

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Phe Asn Pro Asp Arg Glu Gly Trp Leu Leu Lys Leu Gly Gly Arg Val  
65 70 75 80  
Lys Thr Trp Lys Arg Gly Trp Phe Ile Leu Thr Asp Asn Cys Leu Tyr  
85 90 95  
Tyr Phe Glu Phe Thr Thr Asp Lys Glu Pro Arg Gly Ile Ile Pro Leu  
100 105 110  
Glu Asn Leu Ser Val Gln Lys Val Asp Asp Pro Lys Lys Pro Phe Cys  
115 120 125  
Leu Glu Leu Tyr Asn Pro Ser Cys Arg Gly Gln Lys Ile Lys Ala Cys  
130 135 140  
Lys Thr Asp Gly Asp Gly Arg Val Val Glu Gly Lys His Glu Ser Tyr  
145 150 155 160  
Arg Ile Ser Ala Thr Ser Ala Glu Glu Arg Asp Gln Trp Ile Glu Ser  
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180 185 190  
Arg Lys Lys Lys Ile Ala Ser Lys Gln  
195 200

<210> 13168  
<211> 1583  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1084)..(1476)

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aacatttcct gcgcagctaa agcaagtctt accagtagga aaccggaact tgctaggact 180  
aagaaaacttg aggctaggct gaccccatgg ttgttatgat tagaaatccg aggccactgg 240  
aaacccggag ctgctgacca acgagtcaca gggtaacttc gccttcgcat ggggaaacgg 300  
gctggtgcag tgggtgcatc ttggctcagt gcagcctcga ctctctggga tccagcgatc 360  
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ttcccggtcc agagcccaca ggatcctaca ggagggggcca acaactgctt gcctttgaaa 480  
cttgaaaactc tcggtctaag gttccttagg agcgtaaaag gcacagcggt ttctgatcgc 540  
agcttcagggt ctcccgcccc tgtcccggtc cctctcctgc aggacggaac totgtgggaa 600  
cgctcggtga ttctgatggt taactgtcag atatccttga tattggacat aggatttgga 660  
agagggcagg agagaaaaat gaactgcaag actccagcac aagagggtggg attgctggca 720  
gatgtctgct ccctctccaa acctaataaa catctcaaa tgccatccac ttctctatac 780  
ccttgatctg tgaaatggat cactgacgct ttctctgtct ttccggaaat gcaaaacagg 840  
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tccttcctca taggaaataa ggaactgcca ctgcttgtaa gtaaaacgta tttttcccat 960  
aagctttcac atttcccaaa aaaaattata catccagatg taatccccct aagaggctta 1020  
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09629469-072800

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tccccaggcg tttgctttga tcttccctc ccaccatact acttcttctg ctacctggtt 1260
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gaaaaatggc atcgtttcca ccttaaaagt tacaagcact tcaccagatg gtacagccta 1380
ggtagagcct ttgtaaaaca aatgcccgcc cactgcttca ccctcctcat ttccacctca 1440
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<210> 13169  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 13169

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Cys	Arg	Gly	Ala	Gln	Arg	Arg	Ala	Leu	Thr	Ser	Gln	Glu	Thr	Gln	Phe
			20					25					30		
Gly	Val	Ala	Ile	Val	Thr	His	Ser	Pro	Gly	Val	Cys	Phe	Asp	Leu	Pro
		35					40					45			
Leu	Pro	Pro	Tyr	Tyr	Phe	Phe	Cys	Tyr	Leu	Val	Ser	Pro	Trp	Tyr	Leu
		50				55					60				
Arg	Ile	Leu	Gln	Leu	Pro	Ser	Gly	Leu	Thr	Asp	Gly	Arg	Ile	Lys	Glu
		65			70					75				80	
Lys	Trp	His	Arg	Phe	His	Leu	Lys	Ser	Tyr	Lys	His	Phe	Thr	Arg	Trp
			85						90					95	
Tyr	Ser	Leu	Gly	Arg	Ala	Phe	Val	Lys	Gln	Met	Pro	Ala	His	Cys	Phe
			100					105					110		
Thr	Leu	Leu	Ile	Ser	Thr	Ser	Ala	Lys	His	Phe	Ser	Arg	Lys	Ala	Asp
		115					120					125			
Pro	Glu	Gln													
		130													

<210> 13170  
 <211> 1093  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (54).. (659)

<400> 13170  
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aagacaaagc tgaagcattt gtcaataact ggtcttctat ggggtcaagaa acagttgaaa 420
agttccggca gagaattctg gctccctgta agctagagac tgttgatgg cagcttaacc 480
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gatacattgc caggttgtgt tttctgaagg attcagtgac ttgctttctg taaattatat 780
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agaaaatagc cat 1093

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<210> 13171  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<400> 13171

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Lys Ala Val Ser Leu Ile Asn Ala Ile Asp Thr Gly Arg Phe Pro Arg
          20             25             30
Leu Leu Thr Arg Ile Leu Gln Lys Leu His Leu Lys Ala Glu Ser Ser
          35             40             45
Phe Ser Glu Glu Glu Glu Glu Lys Leu Gln Ala Ala Phe Ser Leu Glu
          50             55             60
Lys Gln Asp Leu His Leu Val Leu Glu Thr Ile Ser Phe Ile Leu Glu
          65             70             75             80
Gln Ala Val Tyr His Asn Val Lys Pro Ala Ala Leu Gln Gln Gln Leu
          85             90             95
Glu Asn Ile His Leu Arg Gln Asp Lys Ala Glu Ala Phe Val Asn Thr
          100            105            110
Trp Ser Ser Met Gly Gln Glu Thr Val Glu Lys Phe Arg Gln Arg Ile
          115            120            125
Leu Ala Pro Cys Lys Leu Glu Thr Val Gly Trp Gln Leu Asn Leu Gln
          130            135            140
Met Ala His Ser Ala Gln Ala Lys Leu Lys Ser Pro Gln Ala Val Leu
          145            150            155            160
Gln Leu Gly Val Asn Asn Glu Asp Ser Lys Ser Leu Glu Lys Val Leu
          165            170            175

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09629469.072800

Val Glu Phe Ser His Lys Glu Leu Phe Asp Phe Tyr Asn Lys Leu Glu  
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<210> 13172  
 <211> 1911  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (96).. (968)

<400> 13172

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gcctggctga gttccactgc ccgaagtgtc ggcacaactt ccggggctgg gcacagatgg 600
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cgcgccggga ccgggaccgg gatcgccgca gacccacac tcactcctgc tcagctgccg 720
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ggaagcagaa ccacctgcc aaagtgtctc accccagcaa ccctcacatt agcagtggcc 840
ccactgtggc cacctgcttg agccagggtg gcctcctgga agacctggac aacctcatcc 900
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cttgattctt tttttgcctc atcagagaag gaatctggac tccccatccc cccaccagga 1860
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<210> 13173  
 <211> 291  
 <212> PRT  
 <213> Homo sapiens

<400> 13173

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Glu Lys Phe His Gly Lys Val Ser Ser Lys Lys Ala Gly Ala Leu Met
          20           25           30
Arg Lys Phe Gly Ser Asp His Thr Gly Val Gly Arg Ser Ile Val Tyr
          35           40           45
Gly Val Lys Gln Lys Asp Gly Gln Glu Leu Ser Asn Asp Leu Asp Ala
          50           55           60
Gln Asp Pro Pro Glu Asp Met Lys Gln Asp Arg Asp Ile Gln Ala Val
          65           70           75           80
Ala Thr Ser Leu Leu Pro Leu Thr Glu Ala Asn Leu Arg Met Phe Gln
          85           90           95
Arg Ala Gln Asp Asp Leu Ile Pro Ala Val Asp Arg Gln Phe Ala Cys
          100          105          110
Ser Ser Cys Asp His Val Trp Trp Arg Arg Val Pro Gln Arg Lys Glu
          115          120          125
Val Ser Arg Cys Arg Lys Cys Arg Lys Arg Tyr Glu Pro Val Pro Ala
          130          135          140
Asp Lys Met Trp Gly Leu Ala Glu Phe His Cys Pro Lys Cys Arg His
          145          150          155          160
Asn Phe Arg Gly Trp Ala Gln Met Gly Ser Pro Ser Pro Cys Tyr Gly
          165          170          175
Cys Gly Phe Pro Val Tyr Pro Thr Arg Ile Leu Pro Pro Arg Arg Asp
          180          185          190
Arg Asp Pro Asp Arg Arg Ser Thr His Thr His Ser Cys Ser Ala Ala
          195          200          205
Asp Cys Tyr Asn Arg Arg Glu Pro His Val Pro Gly Thr Ser Cys Ala
          210          215          220
His Pro Lys Ser Arg Lys Gln Asn His Leu Pro Lys Val Leu His Pro
          225          230          235          240
Ser Asn Pro His Ile Ser Ser Gly Pro Thr Val Ala Thr Cys Leu Ser
          245          250          255
Gln Gly Gly Leu Leu Glu Asp Leu Asp Asn Leu Ile Leu Glu Asp Leu
          260          265          270
Lys Glu Glu Glu Glu Glu Glu Glu Val Glu Asp Glu Glu Gly Gly
          275          280          285
Pro Arg Glu
          290
    
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<210> 13174  
<211> 1736  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (236).. (1225)

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cattttaaaa tcctgtgcgt ttatcttcat ttigtctgggc agaaagccaa agtactggac 180  
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caaggaagtg cctgaaaacc caaactatgc tctcaaatgt actcttgttg gacacacgga 360  
agcagtgtca tcagttaagt ttagtcctaa tggagaatgg ctagcaagtt cttctgctga 420  
taggctaate ataatttggg gagcatatga tggaaaatat gagaaaacac tctatgggtca 480  
taatttggaa atatcggatg ttgcctggtc atcagattcc agtcgtcttg tttctgcctc 540  
agatgataaa actctaaaat tatgggatgt gagatctgga aaatgtttga aaacactgaa 600  
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gaaccttcag actaaagaga ttgtgcagaa attacaaggc catacagatg ttgtgatctc 1140  
agcagcttgt catcctacag aaaacctcat cgcacacgca gcattagaaa atgacaaaac 1200  
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tgaaaaagca catctagaat tcagcttctg actaccaatc ttttttgagc aactttttgt 1440  
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ggcttagtat accctcacc aaatagtata cattgtacct agtaaatact ttcccatctc 1560  
tcaccccaact cccaccttg aaggctctag tgtctatgac tctgctctcc acgtccaggt 1620  
gtacacattg tttatctccc acttacgaga acatgtgggt tttgactttc tgtatcatta 1680  
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<210> 13175  
<211> 330  
<212> PRT  
<213> Homo sapiens

<400> 13175  
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09629469-072300

-6912/13211-

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Ser Ser Ala Asn Gln Ser Lys Glu Val Pro Glu Asn Pro Asn Tyr Ala			
20	25	30	
Leu Lys Cys Thr Leu Val Gly His Thr Glu Ala Val Ser Ser Val Lys			
35	40	45	
Phe Ser Pro Asn Gly Glu Trp Leu Ala Ser Ser Ser Ala Asp Arg Leu			
50	55	60	
Ile Ile Ile Trp Gly Ala Tyr Asp Gly Lys Tyr Glu Lys Thr Leu Tyr			
65	70	75	80
Gly His Asn Leu Glu Ile Ser Asp Val Ala Trp Ser Ser Asp Ser Ser			
85	90	95	
Arg Leu Val Ser Ala Ser Asp Asp Lys Thr Leu Lys Leu Trp Asp Val			
100	105	110	
Arg Ser Gly Lys Cys Leu Lys Thr Leu Lys Gly His Ser Asn Tyr Val			
115	120	125	
Phe Cys Cys Asn Phe Asn Pro Ser Asn Leu Ile Ile Ser Gly Ser			
130	135	140	
Phe Asp Glu Thr Val Lys Ile Trp Glu Val Lys Thr Gly Lys Cys Leu			
145	150	155	160
Lys Thr Leu Ser Ala His Ser Asp Pro Val Ser Ala Val His Phe Asn			
165	170	175	
Cys Ser Gly Ser Leu Ile Val Ser Gly Ser Tyr Asp Gly Leu Cys Arg			
180	185	190	
Ile Trp Asp Ala Ala Ser Gly Gln Cys Leu Lys Thr Leu Val Asp Asp			
195	200	205	
Asp Asn Pro Pro Val Ser Phe Val Lys Phe Ser Pro Asn Gly Lys Tyr			
210	215	220	
Ile Leu Thr Ala Thr Leu Asp Asn Thr Leu Lys Leu Trp Asp Tyr Ser			
225	230	235	240
Arg Gly Arg Cys Leu Lys Thr Tyr Thr Gly Gln Lys Asn Glu Lys Tyr			
245	250	255	
Cys Ile Phe Ala Asn Phe Ser Val Thr Gly Gly Lys Trp Ile Val Ser			
260	265	270	
Gly Ser Glu Asp Asn Leu Val Tyr Ile Trp Asn Leu Gln Thr Lys Glu			
275	280	285	
Ile Val Gln Lys Leu Gln Gly His Thr Asp Val Val Ile Ser Ala Ala			
290	295	300	
Cys His Pro Thr Glu Asn Leu Ile Ala Ser Ala Ala Leu Glu Asn Asp			
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Lys Thr Ile Lys Leu Trp Met Ser Asn His			
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<211> 1716

<212> DNA

<213> Homo sapiens

009629469-072800

<400> 13176

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<213> Homo sapiens

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ataaatgato tgatggagct gaaaaacaca gcacgagacc ttcgtgaagc atacagaagt 1860
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<210> 13182  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<400> 13182

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			20					25					30		
Arg	Asn	Ser	Ser	Ala	Leu	Gln	Leu	Pro	Ala	Arg	Ser	Thr	Gln	Lys	Glu
			35					40					45		
Ile	Ile	Ser	Ala	Phe	Pro	Thr	Lys	Val	Pro	Ser	Ser	Ser	His	Trp	Asp
			50				55					60			
Trp	Leu	Asp	Ser	Gly	Cys	Ser	Pro	Gln	Lys	Ala	Ser	Arg	Ser	Arg	Val
					70					75					80
Gly	Cys	Arg	Leu	Thr	Arg	Glu	Ala	Gln	Gly	Val	Arg	Glu	Leu	Pro	Pro
					85					90					95
Leu	Ala	Lys	Gly	Ser	Cys	Glu	Gly	Leu	Cys	Arg	Glu	Glu	Arg	Gly	Ile
			100					105					110		
Pro	Ala	Gln	Ile	Leu	Cys	Phe	Pro	His	Gly	Leu	Cys	Asn	Pro	Gln	Thr
			115					120					125		
Arg	Arg	Phe	Pro	Trp	Val	Pro	Ala	Pro	Pro	Gly	Pro	Trp	Val	Ser	Ser
			130				135					140			
Lys	Lys	Leu	Gly	Ser	His	Leu	Gly	Arg	His						
145						150									

<210> 13183  
 <211> 1854  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

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<222> (96).. (722)

<400> 13183

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tgctcaagaa cagagctaaa gaagaaatga gcctctctga tttgaacagt caggaccggg 240
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<210> 13184

<211> 209

<212> PRT

<213> Homo sapiens

<400> 13184

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      20           25           30
Arg Ala Lys Glu Glu Met Ser Leu Ser Asp Leu Asn Ser Gln Asp Arg
      35           40           45

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-6921/13211-

Val Asp His Glu Glu Trp Glu Met Val Pro Arg His Ser Ser Trp Gly  
50 55 60  
Asp Val Gly Val Gly Gly Ser Leu Lys Ala Pro Val Leu Asn Leu Asn  
65 70 75 80  
Gln Gly Met Asp Asn Gly Arg Ser Thr Leu Val Glu Ala Arg Gly Gln  
85 90 95  
Gln Val His Gly Lys Met Glu Arg Val Ala Val Met Pro Ala Gly Ser  
100 105 110  
Gln Gln Val Ser Val Arg Phe Gln Val His Tyr Val Thr Ser Thr Asp  
115 120 125  
Val Gln Phe Ile Ala Val Thr Gly Asp His Glu Cys Leu Gly Arg Trp  
130 135 140  
Asn Thr Tyr Ile Pro Leu His Tyr Asn Lys Asp Gly Phe Trp Ser His  
145 150 155 160  
Ser Ile Phe Leu Pro Ala Asp Thr Val Val Glu Trp Lys Phe Val Leu  
165 170 175  
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Leu Glu Thr Gly His Glu Asp Lys Val Val His Ala Trp Trp Gly Ile  
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His

<210> 13185  
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<212> DNA  
<213> Homo sapiens

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<222> (175).. (1152)

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008220"69462960

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<210> 13186  
 <211> 326  
 <212> PRT  
 <213> Homo sapiens

<400> 13186

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Phe	Gln	His	Gln	Ala	Pro	Arg	Gln	Leu	Phe	Tyr	Lys	Arg	Pro	Asp	Phe
			20					25					30		
Ala	Gln	Gln	Gln	Ala	Met	Gln	Gln	Leu	Thr	Phe	Asp	Gly	Lys	Arg	Met
			35					40					45		
Arg	Lys	Ala	Val	Asn	Arg	Lys	Thr	Ile	Asp	Tyr	Asn	Pro	Ser	Val	Ile
			50				55				60				
Lys	Tyr	Leu	Glu	Asn	Arg	Ile	Trp	Gln	Arg	Asp	Gln	Arg	Asp	Met	Arg
					70					75				80	
Ala	Ile	Gln	Pro	Asp	Ala	Gly	Tyr	Tyr	Asn	Asp	Leu	Val	Pro	Pro	Ile
					85					90				95	

-6923/13211-

Gly	Met	Leu	Asn	Asn	Pro	Met	Asn	Ala	Val	Thr	Thr	Lys	Phe	Val	Arg
			100					105					110		
Thr	Ser	Thr	Asn	Lys	Val	Lys	Cys	Pro	Val	Phe	Val	Val	Arg	Trp	Thr
		115					120					125			
Pro	Glu	Gly	Arg	Arg	Leu	Val	Thr	Gly	Ala	Ser	Ser	Gly	Glu	Phe	Thr
	130					135					140				
Leu	Trp	Asn	Gly	Leu	Thr	Phe	Asn	Phe	Glu	Thr	Ile	Leu	Gln	Ala	His
145					150					155					160
Asp	Ser	Pro	Val	Arg	Ala	Met	Thr	Trp	Ser	His	Asn	Asp	Met	Trp	Met
				165					170					175	
Leu	Thr	Ala	Asp	His	Gly	Gly	Tyr	Val	Lys	Tyr	Trp	Gln	Ser	Asn	Met
		180						185					190		
Asn	Asn	Val	Lys	Met	Phe	Gln	Ala	His	Lys	Glu	Ala	Ile	Arg	Glu	Ala
		195					200					205			
Arg	Phe	Ile	His	Asn	Ile	Pro	Phe	Ser	Val	Val	Pro	Ile	Val	Met	Val
	210				215						220				
Lys	Leu	Phe	Ser	Lys	Cys	Ile	Leu	Gly	Ala	Glu	Met	His	Gly	Leu	Cys
225					230					235					240
Gln	Phe	Leu	Gly	Asn	Phe	Leu	His	Pro	Ile	Asn	Thr	Ile	Phe	Phe	Phe
				245					250					255	
Val	Phe	Thr	His	Ser	Pro	Phe	Cys	Trp	His	Leu	Ser	Glu	Val	Val	Leu
			260					265					270		
Ser	Arg	Tyr	Gln	Pro	Leu	Gln	Tyr	Val	Arg	Asp	Val	Leu	Ser	Ala	Ala
		275					280					285			
Phe	Cys	Thr	Gly	Phe	Leu	Phe	Ser	Phe	Met	Ile	Asn	Asn	Val	Tyr	Thr
	290					295				300					
Leu	Phe	Leu	Phe	Ile	Ile	Tyr	Cys	Val	Arg	Gln	Glu	Tyr	Phe	Ile	Pro
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Asn	Lys	Glu	Phe	Ser	Leu										
				325											

<210> 13187  
 <211> 1303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (60).. (641)

<400> 13187  
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 caatgcagaa atacccaaac cctatgaacc caagtgtggt tggagttgat gtgttggaca 180  
 gacatataga tccctctgga aagttgcaca gccacagact tctcagcaca gagtggggac 240  
 tgccttccat tgtgaagtct cttattggtg cagcaagaac gaaaacatat gtgcaagaac 300  
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ttgaaggact gatggcaagt acgatatact caaatgctag taaaggccga gaagcaatgg 540
aatgggtaat acataaatta aatgctgaga ttgaagaact gacagcctca gcaagaggaa 600
ccataaggac tccaatggca gcagcagcgt ttgcagagaa gtgatcgtga cagttggtag 660
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<210> 13188  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 13188

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			20					25					30		
Val	Val	Gly	Val	Asp	Val	Leu	Asp	Arg	His	Ile	Asp	Pro	Ser	Gly	Lys
		35				40					45				
Leu	His	Ser	His	Arg	Leu	Leu	Ser	Thr	Glu	Trp	Gly	Leu	Pro	Ser	Ile
	50				55						60				
Val	Lys	Ser	Leu	Ile	Gly	Ala	Ala	Arg	Thr	Lys	Thr	Tyr	Val	Gln	Glu
65					70					75				80	
His	Ser	Val	Val	Asp	Pro	Val	Glu	Lys	Thr	Met	Glu	Leu	Lys	Ser	Thr
				85					90					95	
Asn	Ile	Ser	Phe	Thr	Asn	Met	Val	Ser	Val	Asp	Glu	Arg	Leu	Ile	Tyr
			100				105						110		
Lys	Pro	His	Pro	Gln	Asp	Pro	Glu	Lys	Thr	Val	Leu	Thr	Gln	Glu	Ala
		115					120					125			
Ile	Ile	Thr	Val	Lys	Gly	Val	Ser	Leu	Ser	Ser	Tyr	Leu	Glu	Gly	Leu
	130					135					140				
Met	Ala	Ser	Thr	Ile	Ser	Ser	Asn	Ala	Ser	Lys	Gly	Arg	Glu	Ala	Met
145					150					155				160	
Glu	Trp	Val	Ile	His	Lys	Leu	Asn	Ala	Glu	Ile	Glu	Glu	Leu	Thr	Ala
			165						170					175	
Ser	Ala	Arg	Gly	Thr	Ile	Arg	Thr	Pro	Met	Ala	Ala	Ala	Ala	Phe	Ala
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09629459.072800

Glu Lys

<210> 13189  
<211> 1812  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (304).. (1224)

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<211> 307  
 <212> PRT  
 <213> Homo sapiens

<400> 13190

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			20					25					30		
Val	Gly	Lys	Thr	Gly	Cys	Gly	Lys	Ser	Ala	Thr	Gly	Asn	Ser	Ile	Leu
		35					40					45			
Gly	Gln	Pro	Val	Phe	Glu	Ser	Lys	Leu	Arg	Ala	Gln	Ser	Val	Thr	Arg
	50					55					60				
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<222> (8).. (1354)

<400> 13191

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<213> Homo sapiens

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Ser Pro Ala Ile Thr Ala Thr Leu Glu Gly Lys Asn Arg Thr Leu Tyr  
385 390 395 400  
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Lys Thr Leu Lys Glu Leu Gly Leu Val Asp Gly Gln Glu Leu Ala Val  
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 Thr Gly Arg Glu Glu Pro Asn Met Leu Gly Leu His Phe Pro Tyr Leu  
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Gly Ala Glu Gln Gln Gln Gln His His Val Phe Ile Ser Gln Val				
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Val Thr Glu Lys Glu Phe Leu Ser Arg Ser Asp Gln Leu Gln Gln Ala				
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Val Gln Ser Gln Gly Phe Ile Asn Tyr Cys Gln Lys Lys Ile Asp Ala				
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Ser Gln Thr Glu Phe Glu Lys Asn Val Trp Ser Phe Leu Lys Val Asn				
465		470		480
Phe Glu Asp Asp Ser Arg Gly Lys Tyr Leu Glu Leu Leu Gly Tyr Arg				
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Lys Glu Asp Leu Gly Lys Lys Ile Ala Leu Ala Leu Asn Lys Val Asp				
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Gly Ala Asn Val Ala Leu Lys Asp Ser Asp Gln Val Ala Gln Ser Asp				
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Gly Glu Glu Ser Pro Ala Ala Glu Glu Gln Leu Leu Gly Glu His Ile				
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Lys Glu Glu Lys Glu Glu Ser Glu Phe Leu Pro Ser Ser Gly Gly Thr				
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Phe Asn Ile Ser Val Ser Gly Asp Ile Asp Gly Leu Ile Thr Gln Ala				
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Leu Leu Thr Gly Asn Phe Glu Ser Ala Val Asp Leu Cys Leu His Asp				
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Asn Arg Met Ala Asp Ala Ile Ile Leu Ala Ile Ala Gly Gly Gln Glu				
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Leu Leu Ala Arg Thr Gln Lys Lys Tyr Phe Ala Lys Ser Gln Ser Lys				
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Ile Thr Arg Leu Ile Thr Ala Val Val Met Lys Asn Trp Lys Glu Ile				
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Val Glu Ser Cys Asp Leu Lys Asn Trp Arg Glu Ala Leu Ala Ala Val				
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Cys Leu Cys Tyr Ile Cys Ala Gly Asn Val Glu Lys Leu Val Ala Cys				
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Trp Thr Lys Ala Gln Asp Gly Ser His Pro Leu Ser Leu Gln Asp Leu				
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Met Asp Thr Ser Thr Val Gly Val Leu Ala Ala Lys Met Ser Gln				
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Tyr Ala Asn Leu Leu Ala Ala Gln Gly Ser Ile Ala Ala Ala Leu Ala				

00629469 "072800



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Lys	Ile	Pro	Tyr	Glu	Lys	Gln	Gln	Leu	Pro	Lys	Gly	Arg	Pro	Gly	Pro
805					810					815					
Val	Ala	Gly	His	His	Gln	Met	Pro	Arg	Val	Gln	Thr	Gln	Gln	Tyr	Tyr
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Pro	His	Gly	Glu	Asn	Pro	Pro	Pro	Pro	Gly	Phe	Ile	Met	His	Gly	Asn
835					840					845					
Val	Asn	Pro	Asn	Ala	Ala	Gly	Gln	Leu	Pro	Thr	Ser	Pro	Gly	His	Met
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 <212> DNA  
 <213> Homo sapiens

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<210> 13198  
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 <212> DNA  
 <213> Homo sapiens

002220"69462960

<220>  
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<222> (49).. (1974)

<400> 13198

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<210> 13199  
<211> 642  
<212> PRT  
<213> Homo sapiens

<400> 13199

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05629469.072800

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Thr	Ala	Glu	Leu	Ala	Gly	Thr	Glu	Phe	Val	Ala	Glu	Lys	Leu	Asn	Ile
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Lys	Phe	Val	Pro	Ala	Glu	Ala	Arg	Thr	Gly	Leu	Leu	Ser	Phe	Glu	Glu
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Ser	Gln	Arg	Ile	Lys	Lys	Leu	His	Glu	Asn	Lys	Gln	Phe	Leu	Cys	
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Leu	Asp	Phe	Trp	Arg	Gln	Leu	Trp	Arg	Val	Ile	Glu	Arg	Ser	Asp	Ile
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Val	Val	Gln	Ile	Val	Asp	Ala	Arg	Asn	Pro	Leu	Leu	Phe	Arg	Cys	Glu
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		195					200					205			
Ile	Leu	Ile	Asn	Lys	Ala	Asp	Leu	Leu	Thr	Ala	Glu	Gln	Arg	Ser	Ala
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Asn	Arg	Asp	Asp	Arg	Gln	Ser	Asn	Thr	Thr	Glu	Phe	Gly	His	Ser	Ser
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Phe	Asp	Gln	Ala	Glu	Ile	Ser	His	Ser	Glu	Ser	Glu	His	Leu	Pro	Ala
		275					280					285			
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Cys	Ser	Glu	Glu	Asp	Gly	Pro	Lys	Glu	Glu	Asp	Cys	Ser	Gln	Asp	Trp
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Lys	Glu	Ser	Ser	Thr	Ala	Asp	Ser	Glu	Ala	Arg	Ser	Arg	Lys	Thr	Pro
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Leu	Leu	Glu	Leu	Phe	Lys	Glu	Leu	His	Thr	Gly	Arg	Lys	Val	Lys	Asp
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Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val Ser  
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Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln Met  
450 455 460  
Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro Arg  
465 470 475 480  
His Val Leu Glu Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg Glu  
485 490 495  
Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr Ala  
500 505 510  
Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp Gln  
515 520 525  
Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys Leu  
530 535 540  
Leu Tyr Cys His Pro Pro Gly Arg Asp Pro Val Thr Phe Gln His  
545 550 555 560  
Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile Lys  
565 570 575  
Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile Val  
580 585 590  
Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys Gly  
595 600 605  
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Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys His  
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<210> 13200

<211> 1760

<212> DNA

<213> Homo sapiens

<400> 13200

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tgtacatgac tagatctgac ctcccctctc ctgcagggtc ctggaccaa ttgccccgca 360  
gcctgcgcat gagggataag agggcagact ttgtggttgg gtcccttggg ggccacattg 420  
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008220" 69462960

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 <213> Homo sapiens

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 <222> (47).. (2257)

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09629469.072800

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<210> 13202

<211> 737

<212> PRT

<213> Homo sapiens

<400> 13202

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Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr
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Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr

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Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe		
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Cys Gln Tyr Asp Tyr Val Glu Val Arg Asp Gly Asp Asn Arg Asp Gly		
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Gln Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Pro Ala Pro Ile Gln		
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Ser Ile Gly Ser Ser Leu His Val Leu Phe His Ser Asp Gly Ser Lys		
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Asn Phe Asp Gly Phe His Ala Ile Tyr Glu Glu Ile Thr Ala Cys Ser		
225	230	235
Ser Ser Pro Cys Phe His Asp Gly Thr Cys Val Leu Asp Lys Ala Gly		
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Ser Gly Lys Gln Pro Ile Cys Ile Lys Ala Cys Arg Glu Pro Lys Ile		
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370	375	380
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Leu Gln Ser Ala Pro Thr Lys Lys Pro Ala Leu Pro Phe Gly Asp Leu		
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420	425	430
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<212> PRT  
<213> Homo sapiens

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50 55 60  
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Lys Val Thr Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met  
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Gln Lys Glu Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp  
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Asp Ile Val Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly  
165 170 175  
Lys Met Ala Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser  
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 <213> Homo sapiens

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-6945/13211-

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      35           40           45
Thr Glu Met Ala Ala Ser His Leu Asp Asn Lys Ile Ile Gln Glu Pro
      50           55           60
Lys Val Lys Asn Pro Cys Leu Asn Val Gln Ser Gln Arg Ser Val Ser
      65           70           75           80
Pro Thr Phe Leu Asn Pro Ser Asp Glu Asn Leu Lys Thr Leu Cys Asn
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Phe Ala Gly Asp Leu Ala Ala Glu Val Ile Thr Glu Ala Glu Lys Ile
      100          105          110
Ala Lys Val Arg Asn Cys Met Leu Phe Lys Gln Lys Lys Asn Ser Cys
      115          120          125
Tyr Ala Asp Gly Asp Glu Asp Tyr Lys Val Glu Glu Arg Leu Asp Ile
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Glu Ala Val Val His Pro Arg Glu Val Asp Pro Phe Ile Leu Ser Leu
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Pro Pro Ser Ser Cys Met Ser Gly Leu Met Tyr Lys Tyr Pro Ser Cys
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Glu Ser Val Thr Asp Glu Tyr Ala Gly His Leu Ile Gln Ile Leu Lys
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Gln Glu Gly Gly Asn Ser Glu Leu Ile Met Asp Gln Tyr Ala Asn Arg
      195          200          205
Leu Ala Tyr Arg Ser Val Lys Ser Gly Leu Gln Glu Ala Ala Lys Thr
      210          215          220
Thr Lys Val Gln Cys Asn Ser Arg Met Phe Pro Val Pro Ser Ser Gln
      225          230          235          240
Val Lys Thr Asn Lys Glu Leu Leu Met Phe Ser Asn Lys Glu His His
      245          250          255
Gln Glu Ala Asp Lys Lys Arg Gln Ser Lys Arg Asn Glu Gly Tyr Phe
      260          265          270
Cys Lys Asn Gln Thr Cys Glu Arg Thr Cys Gly Pro Ser Val Glu Leu
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<212> DNA

<213> Homo sapiens

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<221> CDS

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<222> (36).. (1394)

<400> 13207

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<211> 453

<212> PRT

<213> Homo sapiens

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          35             40             45
Lys Cys Gln Gln Val Leu Glu Pro Pro Tyr Asp Glu Met Phe Ala Ala

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Ala Val Pro His Arg Thr	His Ala Val Asp Tyr	Leu Gly Leu Glu Thr
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Arg Lys His Trp Ala Ser	Cys Ser Phe Leu Gln	Leu Glu Arg Asn Asp
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Ser Val Leu Glu Gln Lys	Leu Val Ser Ala Leu	Ser Leu Gly Thr Ser
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Phe Leu Arg Ala Phe Gln	Ala His Lys Glu Glu	Asn Trp Ala Leu Pro
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Val Met Tyr Ala Val Ala	Leu Asp Leu Arg Val	Phe Ala Asn Asn Ala
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Asp Gln Gln Leu Val Lys	Lys Gly Lys Ser Lys	Val Gly Asp Met Leu
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Phe Ala Phe Glu His Cys	His Arg Ser Ser Gln	Lys Asn Lys Arg Met
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Ile Leu Ile Tyr Leu Leu	Pro Val Lys Met Leu	Leu Gly His Met Pro
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Thr Val Glu Leu Leu Lys	Lys Tyr His Leu Met	Gln Phe Ala Glu Val
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Ala Lys His Glu Ala Phe	Phe Ile Arg Cys Gly	Ile Phe Leu Thr Leu
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Glu Lys Leu Lys Ile Ile	Thr Tyr Arg Asn Leu	Phe Lys Lys Val Tyr
370	375	380
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<213> Homo sapiens

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Gln Gln Glu Glu Thr Asn Arg Val Lys Glu Arg Lys Arg Lys Arg Glu  
85 90 95  
Lys Tyr Ala Glu Lys Lys Lys Lys Glu Asp Glu Leu Asp Gly Lys Arg  
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115 120 125  
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Ile Val Asp Asp Pro Ala Ser Ser Ala Pro Gln Ser Arg Ala Thr Asn  
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195 200 205  
Ser Ile Gln Glu Met Pro Ala Ala Gly Arg Gly His Ser Ala Arg Ser  
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Arg Gly Arg Pro Lys Gly Ser Gly Ser Thr Ala Lys Gly Ala Gly Lys  
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<211> 428

<212> PRT

<213> Homo sapiens

<400> 13225

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Asp	Lys	Ile	Glu	Lys	Pro	Asn	Asn	Phe	Met	Lys	Asp	Ser	Ala	Ser	Gln	35	40	45	
Asp	Asn	Gly	Leu	Ser	Arg	Lys	Ile	Ser	Arg	Lys	Arg	Val	Cys	Ser	Ser	50	55	60	
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Thr	Gly	Leu	Leu	Arg	Ile	Thr	Arg	Arg	Cys	Ala	Ala	Thr	Ala	Ala	Asn	85	90	95	
Lys	Ile	Lys	Leu	Met	Ser	Asp	Val	Glu	Asp	Val	Ser	Leu	Glu	Asn	Val	100	105	110	
His	Thr	Arg	Ser	Lys	Asn	Gly	Arg	Lys	Lys	Pro	Leu	His	Leu	Ala	Cys	115	120	125	
Thr	Thr	Ala	Lys	Lys	Lys	Leu	Ser	Asp	Cys	Glu	Gly	Ser	Val	His	Cys	130	135	140	
Glu	Val	Pro	Ser	Glu	Gln	Tyr	Ala	Cys	Glu	Gly	Lys	Pro	Pro	Asp	Pro	145	150	155	160
Asp	Ser	Glu	Gly	Ser	Thr	Lys	Val	Leu	Ser	Gln	Ala	Leu	Asn	Gly	Asp	165	170	175	
Ser	Asp	Ser	Glu	Asp	Met	Leu	Asn	Ser	Glu	His	Lys	His	Arg	His	Thr	180	185	190	
Asn	Ile	His	Lys	Ile	Asp	Ala	Pro	Ser	Lys	Arg	Lys	Ser	Ser	Ser	Val	195	200	205	
Thr	Ser	Ser	Gly	Glu	Asp	Ser	Lys	Ser	His	Ile	Pro	Gly	Ser	Glu	Thr	210	215	220	
Asp	Arg	Thr	Phe	Ser	Ser	Glu	Ser	Thr	Leu	Ala	Gln	Lys	Ala	Thr	Ala	225	230	235	240
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Ser	Val	Thr	Glu	Ser	Asp	Ile	Asp	Cys	Thr	Asp	Asn	Thr	Lys	Thr	Lys
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Ala	Lys	Ser	Lys	Arg	Val	Leu	Arg	Arg	Ser	Lys	Ile	Lys	Thr	Arg	Asn
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Gln	Gly	Arg	Arg	Thr	Val	Arg	Tyr	His	Asp	Gly	Asp	Asp	Asp	Arg	Ser
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 <222> (6).. (713)

<400> 13226

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<400> 13227

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			20				25						30		
Leu	Thr	Gly	Thr	Ala	Ile	Asp	Cys	Tyr	Lys	Tyr	Leu	Glu	Pro	Leu	Tyr
		35				40						45			
Asn	Asp	Tyr	Arg	Lys	Ile	Lys	Ser	Gln	Asn	Arg	Asn	Gly	Glu	Phe	Glu
	50				55					60					
Leu	Met	His	Val	Asp	Glu	Phe	Ile	Asp	Glu	Leu	Leu	His	Ser	Glu	Arg
	65			70				75						80	
Val	Cys	Asp	Ile	Ile	Leu	Pro	Arg	Leu	Gln	Lys	Arg	Tyr	Val	Leu	Glu
			85				90							95	
Glu	Ala	Glu	Gln	Leu	Glu	Pro	Arg	Val	Ser	Ala	Leu	Glu	Glu	Asp	Met
			100				105						110		
Asp	Asp	Val	Glu	Ser	Ser	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Lys	Leu
		115				120						125			
Glu	Arg	Val	Pro	Ser	Pro	Asp	His	Arg	Arg	Arg	Ser	Tyr	Arg	Asp	Leu

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145		150		155
Arg Ser Pro Arg Arg Arg Ser Arg Ser Pro Lys Arg Arg Ser Pro Ser				
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 <212> DNA  
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1413

<210> 13229

<211> 304

<212> PRT

<213> Homo sapiens

<400> 13229

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Asn	Gly	Arg	Asn	Asn	Leu	Ile	Gln	Lys	Thr	Ala	Ala	Ala	Met	Phe		35	40	45	
Ala	Gln	Gln	Met	Gln	Leu	Met	Leu	Gln	Asn	Ala	Gln	Met	Ser	Ser	Leu	50	55	60	
Gly	Ser	Phe	Pro	Met	Thr	Pro	Ser	Ile	Pro	Ala	Asn	Pro	Pro	Met	Ala	65	70	75	80
Phe	Asn	Pro	Tyr	Ile	Pro	His	Pro	Gly	Met	Gly	Leu	Val	Pro	Ala	Glu	85	90	95	
Leu	Val	Pro	Asn	Thr	Pro	Val	Leu	Ile	Pro	Gly	Asn	Pro	Pro	Leu	Ala	100	105	110	
Met	Pro	Gly	Ala	Val	Gly	Pro	Lys	Leu	Met	Arg	Ser	Asp	Lys	Leu	Glu	115	120	125	
Val	Cys	Arg	Glu	Phe	Gln	Arg	Gly	Asn	Cys	Thr	Arg	Gly	Glu	Asn	Asp	130	135	140	
Cys	Arg	Tyr	Ala	His	Pro	Thr	Asp	Ala	Ser	Met	Ile	Glu	Ala	Ser	Asp	145	150	155	160
Asn	Thr	Val	Thr	Ile	Cys	Met	Asp	Tyr	Ile	Lys	Gly	Arg	Cys	Ser	Arg	165	170	175	
Glu	Lys	Cys	Lys	Tyr	Phe	His	Pro	Pro	Ala	His	Leu	Gln	Ala	Arg	Leu	180	185	190	
Lys	Ala	Ala	His	His	Gln	Met	Asn	His	Ser	Ala	Ala	Ser	Ala	Met	Ala	195	200	205	
Leu	Gln	Pro	Gly	Thr	Leu	Gln	Leu	Ile	Pro	Lys	Arg	Ser	Ala	Leu	Glu	210	215	220	
Lys	Pro	Asn	Gly	Ala	Thr	Pro	Val	Phe	Asn	Pro	Thr	Val	Phe	His	Cys	225	230	235	240
Gln	Gln	Ala	Leu	Thr	Asn	Leu	Gln	Leu	Pro	Gln	Pro	Ala	Phe	Ile	Pro	245	250	255	
Ala	Gly	Pro	Ile	Leu	Cys	Met	Ala	Pro	Ala	Ser	Asn	Ile	Val	Pro	Met	260	265	270	
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<400> 13230

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<213> Homo sapiens

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<211> 213

<212> PRT

<213> Homo sapiens

<400> 13233



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<400> 13240

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<212> DNA

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Gln Gly Gln Ala Ile	Ser Thr Leu Val Arg Ala	Tyr Leu Leu Thr Lys
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Gly Phe Met Tyr Ser	Leu Ile Gly Leu Tyr Asp	Leu Lys Glu Thr Ala
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Pro Pro His Arg Pro Ala Gln Ala Cys Arg Lys Gly Arg Pro Ala Val  
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Pro Met Ala Asp Thr Val Asp Pro Leu Asp Trp Leu Phe Gly Glu Ser  
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Gln Glu Lys Gln Pro Ser Gln Arg Asp Leu Pro Arg Arg Thr Gly Pro  
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<212> PRT

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<213> Homo sapiens

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 <213> Homo sapiens

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 Ile Asn Glu Leu Lys Ser Glu Ile Asn Ser Leu Lys Gly Leu Leu Leu  
 210 215 220  
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09629469.072800



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 <213> Homo sapiens

<220>  
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09629469.072800



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 <212> PRT  
 <213> Homo sapiens

<400> 13258

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			20					25					30		
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 <212> DNA  
 <213> Homo sapiens

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<210> 13261  
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 <222> (199).. (1725)

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<210> 13262

<211> 509

<212> PRT

<213> Homo sapiens

<400> 13262

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			20					25					30		
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Glu	Ile	Val	Val	Asn	Gly	Asp	Phe	Gln	Ile	Lys	Pro	Val	Glu	Leu	Pro
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Trp	Asp	Cys	Leu	Ser	Val	Gln	Leu	Ser	Glu	Asp	Pro	Pro	Ala	Tyr	Asp
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His	Ala	Ile	Lys	Leu	Val	Gly	Glu	Ile	Lys	Glu	Thr	Leu	Leu	Ser	Phe
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008220.6942960



<213> Homo sapiens

<400> 13263

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<211> 1756

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (106).. (1086)

<400> 13264

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<210> 13265

<211> 327

<212> PRT

<213> Homo sapiens

<400> 13265

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Ala Ser Glu Glu Leu Asp Asn Arg Ser Leu Glu Glu Ile Leu Asn Ser
          50          55          60
Ile Pro Pro Pro Pro Pro Pro Ala Met Thr Asn Glu Ala Gly Ala Pro
          65          70          75          80
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<210> 13267

<211> 182

<212> PRT

<213> Homo sapiens

<400> 13267

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          20             25             30
Ile Thr Thr Cys Val Glu Met Leu Ile Lys Glu Gln Met Arg Lys Tyr
          35             40             45
Lys Val Lys Met Glu Glu Ile Ser Gln Leu Glu Ala Ala Glu Ser Ile
          50             55             60
Ala Phe Arg Arg Leu Ser Leu Leu Arg Gln Asn Ala Pro Trp Pro Leu
 65             70             75             80

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003270.69462960

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Glu Ala Ala Gly Gly Asp Glu Asp Arg Glu Lys Glu Ile Leu Ile Glu  
115 120 125  
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Pro Glu Leu Asp Pro Arg Gly Ser Asp Glu Glu Asn Leu Asp Ser Glu  
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<222> (8).. (931)

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<211> 308  
<212> PRT  
<213> Homo sapiens

<400> 13269

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			20					25					30		
Ser	Ala	Ala	Glu	Glu	Lys	Gly	Gly	Leu	Val	Ser	Asp	Ala	Tyr	Gly	Glu
			35				40					45			
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	50					55				60					
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65					70					75					80
Lys	Pro	Glu	Ala	Asp	Asp	Pro	Lys	Asp	Asn	Thr	Glu	Ala	Glu	Lys	Arg
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			180					185					190		
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 245 250 255  
 Trp Asp Ser Ala Ile Pro Val Thr Thr Ile Ala Gln Pro Thr Ile Leu  
 260 265 270  
 Thr Thr Thr Ala Thr Leu Pro Ala Val Val Thr Val Thr Thr Ser Ala  
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<210> 13270  
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<211> 306

<212> PRT

<213> Homo sapiens

<400> 13272

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          20          25          30
Val Leu Leu Ala Arg Ile Pro Gln Arg Ala Pro Arg Trp Leu Pro Ala
          35          40          45
Cys Arg Gln Lys Thr Ser Leu Ser Phe Leu Asn Arg Pro Asp Leu Pro
          50          55          60
Asn Leu Ala Tyr Lys Lys Leu Lys Gly Lys Ser Pro Gly Ile Ile Phe
          65          70          75          80
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Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg Phe Asp Tyr
          100          105          110
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Ala Ala Ile Ala Arg Pro Glu Lys Val Val Ala Leu Ile Gly Val Ala
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Thr Ala Ala Asp Thr Leu Val Thr Lys Phe Asn Gln Leu Pro Val Glu
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Leu Lys Lys Glu Val Glu Met Lys Gly Val Trp Ser Met Pro Ser Lys
          195          200          205
Tyr Ser Glu Glu Gly Val Tyr Asn Val Gln Tyr Ser Phe Ile Lys Glu
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Ala Glu His His Cys Leu Leu His Ser Pro Ile Pro Val Asn Cys Pro
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Ile Arg Leu Leu His Gly Met Lys Asp Asp Ile Val Pro Trp His Thr
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 Leu Arg Lys His Ser Asp His Arg Met Arg Glu Lys Ala Asp Ile Gln  
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<212> DNA

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agattctgcg	ctttcaggga	gggggcagag	ggcagcttgc	ttctgcaccc	caagttgttt	5040
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caaaaatttc	atcatcatgg	aaattggctt	tccccggggt	cttttgccca	ggagaagttt	5220
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cagaagattc	cagaaataca	gggtcctgtc	cttgcataag	ttcctgcagg	acaggaagtg	5400
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gctaggctga gacgggtacc cccgaatgg ccttgtgcct ccaaaagcct cacgctgcaa 5520  
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<210> 13287  
 <211> 704  
 <212> PRT  
 <213> Homo sapiens

<400> 13287

Met	Phe	Glu	Thr	Ser	Leu	Pro	Arg	Lys	Met	Ala	Glu	Ile	Leu	Val	Ala	1	5	10	15
Thr	Val	Ala	Phe	Leu	Leu	Pro	Ser	Ala	Glu	Tyr	Ser	Ser	Val	Glu	Thr	20	25	30	
Asp	Lys	Lys	Phe	Ile	Val	Ser	Leu	Leu	Leu	Cys	Leu	Leu	Asp	Trp	Cys	35	40	45	
Met	Ala	Leu	Pro	Val	Ser	Val	Leu	Leu	His	Pro	Val	Ser	Thr	Ala	Val	50	55	60	
Leu	Glu	Glu	Gln	His	Ser	Ala	Arg	Ala	Pro	Leu	Leu	Asp	Tyr	Ile	Tyr	65	70	75	80
Arg	Val	Leu	His	Cys	Cys	Val	Cys	Gly	Ser	Ser	Thr	Tyr	Thr	Gln	Gln	85	90	95	
Ser	His	Tyr	Ile	Leu	Thr	Leu	Ala	Asp	Leu	Ser	Ser	Thr	Asp	Tyr	Asp	100	105	110	
Pro	Phe	Leu	Pro	Leu	Ala	Asn	Val	Lys	Ser	Ser	Glu	Pro	Val	Gln	Tyr	115	120	125	
His	Ser	Ser	Ala	Glu	Leu	Gly	Asn	Leu	Leu	Thr	Val	Glu	Glu	Glu	Lys	130	135	140	
Lys	Arg	Arg	Ser	Leu	Glu	Leu	Ile	Pro	Leu	Thr	Ala	Arg	Met	Val	Met	145	150	155	160
Ala	His	Leu	Val	Asn	His	Leu	Gly	His	Tyr	Pro	Leu	Ser	Gly	Gly	Pro	165	170	175	
Ala	Ile	Leu	His	Ser	Leu	Val	Ser	Glu	Asn	His	Asp	Asn	Ala	His	Val	180	185	190	
Glu	Gly	Ser	Glu	Leu	Ser	Phe	Glu	Val	Phe	Arg	Ser	Pro	Asn	Leu	Gln	195	200	205	
Leu	Phe	Val	Phe	Asn	Asp	Ser	Thr	Leu	Ile	Ser	Tyr	Leu	Gln	Thr	Pro	210	215	220	
Thr	Glu	Gly	Pro	Val	Gly	Gly	Ser	Pro	Val	Gly	Ser	Leu	Ser	Asp	Val	225	230	235	240
Arg	Val	Ile	Val	Arg	Asp	Ile	Ser	Gly	Lys	Tyr	Ser	Trp	Asp	Gly	Lys	245	250	255	
Val	Leu	Tyr	Gly	Pro	Leu	Glu	Gly	Cys	Leu	Ala	Pro	Asn	Gly	Arg	Asn	260	265	270	
Pro	Ser	Phe	Leu	Ile	Ser	Ser	Trp	His	Arg	Asp	Thr	Phe	Gly	Pro	Gln	275	280	285	

003220.69462960



Thr Glu His Pro Leu Leu Pro Leu Pro Arg Ala Thr Lys Pro Arg Ile  
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Ser Arg Lys Phe Arg Cys Cys Thr Ser Ala Leu Ser Arg Ser Ser His  
690 695 700

<210> 13288  
<211> 1664  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (106).. (1044)

<400> 13288  
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gagatcaatg cccacaaata ctggaatgac ttctacaaaa tccacgaaaa tgggtttttc 180  
aaggatagac attggctttt taccgaattc cctgagctgg cacctagcca aaatcaaaat 240  
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gatggacctg gtttaataat ggaagaacag cacaagtgtt cticgaagag ccttgaacat 360  
aaaacacaga cacctcctgt ggaggagaat gtaactcaga aaattagtga cctggaaatt 420  
tgtgtgatg agtttcctgg atcctcagcc acctaccgaa tactggaggt tggctgtggt 480  
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tgtgtgatt tttcttccac agctatagaa ctgggtccaga caaattcaga atatgatcct 600  
tctcgggtgt ttgcctttgt tcacgacctg tgtgatgaag agaagagtta cccagtgcgc 660  
aagggcagtc ttgatattat cattctcata tttgttcttt cagcaattgt tccagacaag 720  
atgcagaagg ctatcaacag gctgagcagg ctctctgaaac ctgggggggat ggtacttctg 780  
cgagattacg gccgctatga catggctcag cttcggttta aaaaagggtca gtgtctatct 840  
ggaaatttct atgtgagagg tgatggaacc agagtttact tcttcacaca agaggaactg 900  
gacacgcttt tcaccactgc tggactggaa aaagttcaga acctggtgga ccgcgcactg 960  
cagggtgaacc gagggaagca actgacaatg taccgggttt ggattcagtg caaataactgc 1020  
aagccccttc tgtccagcac cagctaagag gcacctgctg ccaacacgat gcaagccgt 1080  
tgtgtttccg agcttttttt aaaaaaaaaat ttgtagcacc gggcatggtg catgcctgta 1140  
atcccagcca ctccaggaggc tgaggcaggg aggatccatt gagcccagga gtccagcctg 1200  
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attttctcaa gttctttctt tgagacctca atctgtctta gcattttgta actaataact 1440  
gaaattttat tcaaaggaat tgtaaaccct aaaccaccaa tttatttcca tgtgaaaaag 1500  
tgtttatatat gacaagtgtt ttttgattgt aattgcgtta aatcttttga gagtgtaaat 1560  
gccgggctag gcaattgcag ttaatacata caggggttag tgaagggtt attagttgt 1620  
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<210> 13289  
<211> 313

<212> PRT

<213> Homo sapiens

<400> 13289

Met	Pro	Val	Asp	Tyr	Glu	Ile	Asn	Ala	His	Lys	Tyr	Trp	Asn	Asp	Phe	1	5	10	15
Tyr	Lys	Ile	His	Glu	Asn	Gly	Phe	Phe	Lys	Asp	Arg	His	Trp	Leu	Phe	20	25	30	
Thr	Glu	Phe	Pro	Glu	Leu	Ala	Pro	Ser	Gln	Asn	Gln	Asn	His	Leu	Lys	35	40	45	
Asp	Trp	Phe	Leu	Glu	Asn	Lys	Ser	Glu	Val	Cys	Glu	Cys	Arg	Asn	Asn	50	55	60	
Glu	Asp	Gly	Pro	Gly	Leu	Ile	Met	Glu	Glu	Gln	His	Lys	Cys	Ser	Ser	65	70	75	80
Lys	Ser	Leu	Glu	His	Lys	Thr	Gln	Thr	Pro	Pro	Val	Glu	Glu	Asn	Val	85	90	95	
Thr	Gln	Lys	Ile	Ser	Asp	Leu	Glu	Ile	Cys	Ala	Asp	Glu	Phe	Pro	Gly	100	105	110	
Ser	Ser	Ala	Thr	Tyr	Arg	Ile	Leu	Glu	Val	Gly	Cys	Gly	Val	Gly	Asn	115	120	125	
Thr	Val	Phe	Pro	Ile	Leu	Gln	Thr	Asn	Asn	Asp	Pro	Gly	Leu	Phe	Val	130	135	140	
Tyr	Cys	Cys	Asp	Phe	Ser	Ser	Thr	Ala	Ile	Glu	Leu	Val	Gln	Thr	Asn	145	150	155	160
Ser	Glu	Tyr	Asp	Pro	Ser	Arg	Cys	Phe	Ala	Phe	Val	His	Asp	Leu	Cys	165	170	175	
Asp	Glu	Glu	Lys	Ser	Tyr	Pro	Val	Pro	Lys	Gly	Ser	Leu	Asp	Ile	Ile	180	185	190	
Ile	Leu	Ile	Phe	Val	Leu	Ser	Ala	Ile	Val	Pro	Asp	Lys	Met	Gln	Lys	195	200	205	
Ala	Ile	Asn	Arg	Leu	Ser	Arg	Leu	Leu	Lys	Pro	Gly	Gly	Met	Val	Leu	210	215	220	
Leu	Arg	Asp	Tyr	Gly	Arg	Tyr	Asp	Met	Ala	Gln	Leu	Arg	Phe	Lys	Lys	225	230	235	240
Gly	Gln	Cys	Leu	Ser	Gly	Asn	Phe	Tyr	Val	Arg	Gly	Asp	Gly	Thr	Arg	245	250	255	
Val	Tyr	Phe	Phe	Thr	Gln	Glu	Glu	Leu	Asp	Thr	Leu	Phe	Thr	Thr	Ala	260	265	270	
Gly	Leu	Glu	Lys	Val	Gln	Asn	Leu	Val	Asp	Arg	Arg	Leu	Gln	Val	Asn	275	280	285	
Arg	Gly	Lys	Gln	Leu	Thr	Met	Tyr	Arg	Val	Trp	Ile	Gln	Cys	Lys	Tyr	290	295	300	
Cys	Lys	Pro	Leu	Leu	Ser	Ser	Thr	Ser								305	310		

<210> 13290

09629469.072600

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially  
synthesized primer sequence

<400> 13290

tacggaagtg ttacttctgc

20

<210> 13291

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially  
synthesized primer sequence

<400> 13291

tgtgggaggt tttttotota

20

<210> 13292

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially  
synthesized primer sequence

<400> 13292

gttttcccag tcacgac

17

<210> 13293

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially  
synthesized primer sequence

<400> 13293

009270" 6946960

caggaaacag ctatgac

17

<210> 13294

<211> 1387

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (56)..(1369)

<400> 13294

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agatgcagggt attctccgtc tgtacacctg ggtagagtgg gtgaaagaaa tggttgcca 180  
ctgggacagc ctaagaagtg gtcctgccag cactttcaat gatagagttt ttgccagtga 240  
attgaatgca ggaattataa aaacagatca aaactatgaa aagatgatgt ttaaagaagc 300  
tttgaaaaaca ggggtttttg agtttcaggc cgcaaaagat aagtaccgtg aattggctgt 360  
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tccactgttg gggcctcgac gagttcctgt cctgggaaag gagtacaccg agaagacccc 1260  
catttctgag catgctgttt tcaatgtgga cctcatgagc aagaaaattc atctgactga 1320  
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acattgg 1387

<210> 13295

<211> 438

<212> PRT

<213> Homo sapiens

<400> 13295

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Phe Val Glu Ala Met Ala Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp  
20 25 30

003220.6946960



Val	Glu	Trp	Val	Lys	Glu	Met	Val	Ala	Asn	Trp	Asp	Ser	Leu	Arg	Ser
		35						40				45			
Gly	Pro	Ala	Ser	Thr	Phe	Asn	Asp	Arg	Val	Phe	Ala	Ser	Glu	Leu	Asn
	50					55					60				
Ala	Gly	Ile	Ile	Lys	Thr	Asp	Gln	Asn	Tyr	Glu	Lys	Met	Met	Phe	Lys
65					70					75					80
Glu	Ala	Leu	Lys	Thr	Gly	Phe	Phe	Glu	Phe	Gln	Ala	Ala	Lys	Asp	Lys
				85					90					95	
Tyr	Arg	Glu	Leu	Ala	Val	Glu	Gly	Met	His	Arg	Glu	Leu	Val	Phe	Arg
			100					105					110		
Phe	Ile	Glu	Val	Gln	Thr	Leu	Leu	Leu	Ala	Pro	Phe	Cys	Pro	His	Leu
	115					120						125			
Cys	Glu	His	Ile	Trp	Thr	Leu	Leu	Gly	Lys	Pro	Asp	Ser	Ile	Met	Asn
130						135					140				
Ala	Ser	Trp	Pro	Val	Ala	Gly	Pro	Val	Asn	Glu	Val	Leu	Ile	His	Ser
145					150					155					160
Ser	Gln	Tyr	Leu	Met	Glu	Val	Thr	His	Asp	Leu	Arg	Leu	Arg	Leu	Lys
				165					170					175	
Asn	Tyr	Met	Met	Pro	Ala	Lys	Gly	Lys	Lys	Thr	Asp	Lys	Gln	Pro	Leu
			180					185					190		
Gln	Lys	Pro	Ser	His	Cys	Thr	Ile	Tyr	Val	Ala	Lys	Asn	Tyr	Pro	Pro
	195						200					205			
Trp	Gln	His	Thr	Thr	Leu	Ser	Val	Leu	Arg	Lys	His	Phe	Glu	Ala	Asn
	210					215					220				
Asn	Gly	Lys	Leu	Pro	Asp	Asn	Lys	Val	Ile	Ala	Ser	Glu	Leu	Gly	Ser
225					230					235					240
Met	Pro	Glu	Leu	Lys	Lys	Tyr	Met	Lys	Lys	Val	Met	Pro	Phe	Val	Ala
				245					250					255	
Met	Ile	Lys	Glu	Asn	Leu	Glu	Lys	Met	Gly	Pro	Arg	Ile	Leu	Asp	Leu
		260					265					270			
Gln	Leu	Glu	Phe	Asp	Glu	Lys	Ala	Val	Leu	Met	Glu	Asn	Ile	Val	Tyr
	275						280					285			
Leu	Thr	Asn	Ser	Leu	Glu	Leu	Glu	His	Ile	Glu	Val	Lys	Phe	Ala	Ser
	290					295					300				
Glu	Ala	Glu	Asp	Lys	Ile	Arg	Glu	Asp	Cys	Cys	Pro	Gly	Lys	Pro	Leu
305					310					315					320
Asn	Val	Phe	Arg	Ile	Glu	Pro	Gly	Val	Ser	Val	Ser	Leu	Val	Asn	Pro
				325					330					335	
Gln	Pro	Ser	Asn	Gly	His	Phe	Ser	Thr	Lys	Ile	Glu	Ile	Arg	Gln	Gly
			340					345					350		
Asp	Asn	Cys	Asp	Ser	Ile	Ile	Arg	Arg	Leu	Met	Lys	Met	Asn	Arg	Gly
		355					360					365			
Ile	Lys	Asp	Leu	Ser	Lys	Val	Lys	Leu	Met	Arg	Phe	Asp	Asp	Pro	Leu
	370					375					380				
Leu	Gly	Pro	Arg	Arg	Val	Pro	Val	Leu	Gly	Lys	Glu	Tyr	Thr	Glu	Lys
385					390					395					400
Thr	Pro	Ile	Ser	Glu	His	Ala	Val	Phe	Asn	Val	Asp	Leu	Met	Ser	Lys
				405					410					415	

009220.69462960

Lys Ile His Leu Thr Glu Asn Gly Ile Arg Val Asp Ile Gly Asp Thr  
 420 425 430  
 Ile Ile Tyr Leu Val His  
 435

<210> 13296  
 <211> 1424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (75).. (1265)

<400> 13296  
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 tcggcgccaa gttttgggag gtgatcagcg atgagcacgg catcgacccc acgggcacct 180  
 accacgggga cagcgacctg cagctggaac gcatcaacgt gtactacaat gaggccaccg 240  
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 gccagotcaa tgctgacctg cggaagctgg ctgtgaacat ggtcccgttt ccccggtgc 720  
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 tgaccgtgoc cgagctcacc cagcagatgt ttgatgcaa gaacatgatg gctgcctgoc 840  
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 agttcacggc catgttccgg cgcaaggcct tcctgcactg gtacacgggc gaggggcatg 1140  
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 agtaccagga tgccacagcc gaagaggagg gcgagttcga ggaggaggct gaggaggagg 1260  
 tggcctagag ccttcagtca ctggggaaag cagggaagca gtgtgaactc tttattcact 1320  
 ccagccctgt cctgtggccc gtcccactgt gtgcacttgc tgttttcctt gtccacatcc 1380  
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<210> 13297  
 <211> 397  
 <212> PRT  
 <213> Homo sapiens

<400> 13297

09629469.072800

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Gly	Ala	Lys	Phe	Trp	Glu	Val	Ile	Ser	Asp	Glu	His	Gly	Ile	Asp	Pro
			20					25					30		
Thr	Gly	Thr	Tyr	His	Gly	Asp	Ser	Asp	Leu	Gln	Leu	Glu	Arg	Ile	Asn
		35				40						45			
Val	Tyr	Tyr	Asn	Glu	Ala	Thr	Gly	Gly	Lys	Tyr	Val	Pro	Arg	Ala	Val
	50					55					60				
Leu	Val	Asp	Leu	Glu	Pro	Gly	Thr	Met	Asp	Ser	Val	Arg	Ser	Gly	Pro
65					70				75					80	
Phe	Gly	Gln	Ile	Phe	Gln	Leu	Thr	His	Ser	Leu	Gly	Gly	Gly	Thr	Gly
			85						90					95	
Ser	Gly	Met	Gly	Thr	Leu	Leu	Ile	Ser	Lys	Ile	Arg	Glu	Glu	Tyr	Pro
		100						105					110		
Asp	Arg	Ile	Met	Asn	Thr	Phe	Ser	Val	Val	Pro	Ser	Pro	Lys	Val	Ser
	115						120					125			
Asp	Thr	Val	Val	Glu	Pro	Tyr	Asn	Ala	Thr	Leu	Ser	Val	His	Gln	Leu
	130					135					140				
Val	Glu	Asn	Thr	Asp	Glu	Thr	Tyr	Cys	Ile	Asp	Asn	Glu	Ala	Leu	Tyr
145					150					155				160	
Asp	Ile	Cys	Phe	Arg	Thr	Leu	Lys	Leu	Thr	Thr	Pro	Thr	Tyr	Gly	Asp
			165						170					175	
Leu	Asn	His	Leu	Val	Ser	Ala	Thr	Met	Gly	Gly	Val	Thr	Thr	Cys	Leu
	180							185					190		
Arg	Phe	Pro	Gly	Gln	Leu	Asn	Ala	Asp	Leu	Arg	Lys	Leu	Ala	Val	Asn
	195						200					205			
Met	Val	Pro	Phe	Pro	Arg	Leu	His	Phe	Phe	Met	Pro	Gly	Phe	Ala	Pro
	210					215				220					
Leu	Thr	Ser	Arg	Gly	Ser	Gln	Gln	Tyr	Arg	Ala	Leu	Thr	Val	Pro	Glu
225					230					235				240	
Leu	Thr	Gln	Gln	Met	Phe	Asp	Ala	Lys	Asn	Met	Met	Ala	Ala	Cys	Asp
			245						250					255	
Pro	Arg	His	Gly	Arg	Tyr	Leu	Thr	Val	Ala	Ala	Val	Phe	Arg	Gly	Arg
			260					265					270		
Met	Ser	Met	Lys	Glu	Val	Asp	Glu	Gln	Met	Leu	Asn	Val	Gln	Asn	Lys
	275					280						285			
Asn	Ser	Ser	Tyr	Phe	Val	Glu	Trp	Ile	Pro	Asn	Asn	Val	Lys	Thr	Ala
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Val	Cys	Asp	Ile	Pro	Pro	Arg	Gly	Leu	Lys	Met	Ser	Ala	Thr	Phe	Ile
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		340						345					350		
Glu	Gly	Met	Asp	Glu	Met	Glu	Phe	Thr	Glu	Ala	Glu	Ser	Asn	Met	Asn
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Phe	Val	Ala	Thr	Glu	Gly	Ser	Arg	Glu	Leu	Lys	Arg	Glu	Leu	Ile	Asn
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Leu	Leu	Lys	Ala	Ser	Glu	Val	Glu	Glu	Ile	Leu	Asp	Gly	Asn	Asp	Glu
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Phe	Ser	Glu	Ile	Leu	Cys	Asp	Asp	Leu	Asp	Leu	Asn	Pro	Leu	Thr	Phe
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	290					295					300				
Ser	Ile	Arg	Gly	Gln	Leu	Ser	Trp	His	Gln	Lys	Thr	Tyr	Ala	Phe	Ser
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His Pro Cys Asp Gln Glu Glu Leu Gln Asp Ala Leu Thr Pro Gln Gln  
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<213> Homo sapiens

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<222> (1196).. (1528)

<400> 13307

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 Ser Arg Glu Gly Phe Lys Glu Ser Leu Trp Pro Gly Leu Val Ala Cys  
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<212> PRT

<213> Homo sapiens

<400> 13311

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	210					215					220				
Asp	Val	Leu	Thr	Val	Ile	Arg	Arg	Val	Asp	Glu	Asn	Trp	Ala	Glu	Gly
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Met	Leu	Ala	Asp	Lys	Ile	Gly	Ile	Phe	Pro	Ile	Ser	Tyr	Val	Glu	Phe
				245					250					255	
Asn	Ser	Ala	Ala	Lys	Gln	Leu	Ile	Glu	Trp	Asp	Lys	Pro	Pro	Val	Pro
			260					265					270		
Gly	Val	Asp	Ala	Gly	Glu	Cys	Ser	Ala	Ala	Ala	Gln	Ser	Ser	Thr	
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Ala	Pro	Lys	His	Ser	Asp	Thr	Lys	Lys	Asn	Thr	Lys	Lys	Arg	His	Ser
	290					295					300				
Phe	Thr	Ser	Leu	Thr	Met	Ala	Asn	Lys	Ser	Ser	Gln	Ala	Ser	Gln	Asn
305					310					315					320
Arg	His	Ser	Met	Glu	Ile	Ser	Pro	Pro	Val	Leu	Ile	Ser	Ser	Ser	Asn
				325					330					335	
Pro	Thr	Ala	Ala	Ala	Arg	Ile	Ser	Glu	Leu	Ser	Gly	Leu	Ser	Cys	Ser
			340					345					350		
Ala	Pro	Ser	Gln	Val	His	Ile	Ser	Thr	Thr	Gly	Leu	Ile	Val	Thr	Pro
		355					360					365			
Pro	Pro	Ser	Ser	Pro	Val	Thr	Thr	Gly	Pro	Ser	Phe	Thr	Phe	Pro	Ser
	370					375					380				
Asp	Val	Pro	Tyr	Gln	Ala	Ala	Leu	Gly	Thr	Leu	Asn	Pro	Pro	Leu	Pro
385					390					395					400
Pro	Pro	Pro	Leu	Leu	Ala	Ala	Thr	Val	Leu	Ala	Ser	Thr	Pro	Pro	Gly
				405					410				415		
Ala	Thr	Ala	Ala	Ala	Ala	Ala	Ala	Gly	Met	Gly	Pro	Arg	Pro	Met	Ala
			420					425				430			
Gly	Ser	Thr	Asp	Gln	Ile	Ala	His	Leu	Arg	Pro	Gln	Thr	Arg	Pro	Ser
		435					440					445			

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 465 470 475 480  
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 485 490 495  
 Pro Gly Asn Tyr Val Ala Pro Val Thr Arg Ala Val Thr Asn Ala Ser  
 500 505 510  
 Gln Ala Lys Val Pro Met Ser Thr Ala Gly Gln Thr Ser Arg Gly Val  
 515 520 525  
 Thr Met Val Ser Pro Ser Thr Ala Gly Gly Pro Ala Gln Lys Leu Gln  
 530 535 540  
 Gly Asn Gly Val Ala Gly Ser Pro Ser Val Val Pro Ala Ala Val Val  
 545 550 555 560  
 Ser Ala Ala His Ile Gln Thr Ser Pro Gln Ala Lys Val Leu Leu His  
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 Met Thr Gly Gln Met Thr Val Asn Gln Ala Arg Asn Ala Val Arg Thr  
 580 585 590  
 Val Ala Ala His Asn Gln Glu Arg Pro Thr Ala Ala Val Thr Pro Ile  
 595 600 605  
 Gln Val Gln Asn Ala Ala Gly Leu Ser Pro Ala Ser Val Gly Leu Ser  
 610 615 620  
 His His Ser Leu Ala Ser Pro Gln Pro Ala Pro Leu Met Pro Gly Ser  
 625 630 635 640  
 Ala Thr His Thr Ala Ala Ile Ser Ile Ser Arg Ala Ser Ala Pro Leu  
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 660 665 670  
 Ser Leu Glu Ala Glu Pro Ser Gly Arg Ile Val Thr Val Leu Pro Gly  
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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (221).. (1555)

<400> 13312

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tttatccctg cgccagactg aactgccagg aaactcttgt gctcaggatc cggcatcctt 480
tatgcctcca cagcagcctt gctctttccc cagccaatca ctttcagatg ctgaatcgat 540
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 <212> PRT  
 <213> Homo sapiens

<400> 13313

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			20					25					30		
Thr	Arg	Asp	Phe	Ile	Cys	Pro	Asn	Ser	Asn	Ile	Pro	Asp	Gln	Glu	Ser
		35					40					45			
Ser	Leu	Gln	Ser	Phe	Cys	Asn	Ser	Glu	Asn	Lys	Val	Leu	Lys	Glu	Asn
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				85				90						95	
Pro	Ser	Gln	Ser	Leu	Ser	Asp	Ala	Glu	Ser	Ile	Ser	Lys	His	Met	Ser
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Leu	Ser	Tyr	Val	Ala	Asn	Gln	Glu	Pro	Gly	Ile	Leu	Gln	Gln	Lys	Asn
			115				120					125			

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Lys	Asp	Thr	Glu	Asn	Thr	Phe	Val	Leu	Gly	Asp	Val	Gln	Lys	Thr	Asp
145					150					155					160
Ala	Phe	Val	Pro	Val	Tyr	Ser	Asp	Ser	Thr	Ile	Gln	Glu	Ala	Ser	Pro
				165					170					175	
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			180					185					190		
Phe	Asn	Gly	Ser	Asp	Ala	Ser	Thr	Gln	Leu	Asn	Thr	His	Tyr	Ala	Phe
		195					200					205			
Ser	Lys	Leu	Thr	Tyr	Lys	Ser	Ser	Ser	Gly	His	Glu	Val	Glu	Asn	Ser
	210					215					220				
Thr	Thr	Asp	Thr	Gln	Val	Ile	Ser	His	Glu	Lys	Glu	Asn	Lys	Leu	Glu
225					230						235				240
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				245					250					255	
Met	Asn	Ala	Gly	Met	Pro	Lys	Gly	Asn	Leu	Asn	Glu	Gln	Asp	Pro	Lys
			260					265					270		
His	Cys	Pro	Glu	Ser	Glu	Lys	Cys	Leu	Leu	Ser	Ile	Glu	Asp	Glu	Glu
		275					280					285			
Ser	Gln	Gln	Ser	Ile	Leu	Ser	Ser	Leu	Glu	Asn	His	Ser	Gln	Gln	Ser
	290					295					300				
Thr	Gln	Pro	Glu	Thr	His	Lys	Tyr	Gly	Gln	Leu	Val	Lys	Val	Glu	Leu
305					310					315					320
Glu	Glu	Asn	Ala	Glu	Asp	Asp	Lys	Thr	Glu	Asn	Gln	Ile	Pro	Gln	Arg
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			340					345					350		
Leu	Ala	Ser	Cys	Thr	Leu	Leu	Ser	Glu	Lys	Asp	Ser	Glu	Ser	Ser	Ser
		355					360					365			
Pro	Arg	Gly	Arg	Ile	Arg	Leu	Thr	Glu	Asp	Asp	Asp	Pro	Gln	Ile	His
	370					375					380				
His	Pro	Arg	Lys	Arg	Lys	Val	Ser	Arg	Val	Pro	Gln	Pro	Val	Gln	Val
385					390					395					400
Ser	Pro	Ser	Leu	Leu	Gln	Ala	Lys	Glu	Lys	Thr	Gln	Gln	Ser	Leu	Ala
				405					410					415	
Ala	Ile	Val	Asp	Ser	Leu	Lys	Leu	Asp	Glu	Ile	Gln	Pro	Tyr	Ser	Ser
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<211> 1909

<212> DNA

<213> Homo sapiens

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<222> (30).. (431)

<400> 13314

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<212> PRT  
<213> Homo sapiens

<400> 13315

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Arg Pro Leu Ser Ser His Ser Ser Pro Glu His Ile Pro Leu Glu Lys  
50 55 60  
Leu Cys Thr Cys Ala Gln Ala Pro Ala Ala Gly Val Pro Ser Thr Ala  
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Gln Leu Phe Met Lys Asn Arg Asn Gln Pro Lys His Leu Tyr Glu Glu  
85 90 95  
Lys Arg Arg Asn Ala Glu Trp His Val His Met Met Glu Tyr Tyr Ala  
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<212> DNA  
<213> Homo sapiens

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<222> (96).. (935)

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 <213> Homo sapiens

<400> 13317

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Asp	Met	Gly	Glu	Leu	His	Gln	Arg	Leu	Arg	Glu	Glu	Glu	Val	Asp	Ala	50	55	60	
Asp	Ala	Ala	Asp	Ala	Ala	Ala	Glu	Glu	Glu	Asp	Gly	Glu	Phe	Leu		65	70	75	80
Gly	Met	Lys	Gly	Phe	Lys	Gly	Gln	Leu	Ser	Arg	Gln	Val	Ala	Asp	Gln	85	90	95	
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Ala	Asn	Ile	Asp	Ile	Leu	Arg	Pro	Tyr	Phe	Asp	Val	Glu	Pro	Ala	Gln	115	120	125	
Val	Arg	Ser	Arg	Leu	Leu	Glu	Ser	Met	Ile	Pro	Ile	Lys	Met	Val	Asn	130	135	140	
Phe	Pro	Gln	Lys	Ile	Ala	Gly	Glu	Leu	Tyr	Gly	Pro	Leu	Met	Leu	Val	145	150	155	160
Phe	Thr	Leu	Val	Ala	Ile	Leu	Leu	His	Gly	Met	Lys	Thr	Ser	Asp	Thr	165	170	175	
Ile	Ile	Arg	Glu	Gly	Thr	Leu	Met	Gly	Thr	Ala	Ile	Gly	Thr	Cys	Phe	180	185	190	
Gly	Tyr	Trp	Leu	Gly	Val	Ser	Ser	Phe	Ile	Tyr	Phe	Leu	Ala	Tyr	Leu	195	200	205	
Cys	Asn	Ala	Gln	Ile	Thr	Met	Leu	Gln	Met	Leu	Ala	Leu	Leu	Gly	Tyr	210	215	220	
Gly	Leu	Phe	Gly	Arg	Cys	Ile	Val	Leu	Phe	Ile	Thr	Tyr	Asn	Ile	His	225	230	235	240
Leu	His	Ala	Leu	Phe	Tyr	Leu	Phe	Trp	Leu	Leu	Val	Gly	Gly	Leu	Ser	245	250	255	
Thr	Leu	Arg	Met	Val	Ala	Val	Leu	Val	Ser	Arg	Thr	Val	Gly	Pro	Thr				

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 <212> DNA  
 <213> Homo sapiens

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 Gly Lys Thr Pro Leu Met Val Ala Val Leu Asn Asn His Glu Glu Leu  
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Glu	Ala	Ser	Glu	Asp	Leu	Met	Thr	Gln	Lys	Tyr	Lys	His	Ala	Leu	Pro
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Val	Ala	Val	Gln	Asn	Tyr	Ala	Tyr	Leu	Lys	Leu	Leu	Lys	Trp	Asp	His
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<212> PRT

<213> Homo sapiens

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<212> DNA

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<211> 1512

<212> DNA

<213> Homo sapiens

<400> 13338

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1062).. (2210)

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 <212> PRT  
 <213> Homo sapiens

<400> 13340  
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 Ala His Gly Val Gln Lys Lys Ala Tyr Arg Val Leu Glu Glu Val Cys  
 50 55 60  
 Ala Ser Pro Gln Gly Pro Gly Ala Leu Phe Val Gln Ser His Leu Glu  
 65 70 75 80  
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<210> 13341  
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 <212> DNA  
 <213> Homo sapiens

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<210> 13342  
 <211> 2228  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (22).. (1050)

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<210> 13343

<211> 343

<212> PRT

<213> Homo sapiens

<400> 13343

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Cys Trp Ser Leu Gln Glu Lys Tyr Asn Ser Arg Ala Ala Ala Leu Phe
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<210> 13344

<211> 1521

<212> DNA

<213> Homo sapiens

<400> 13344

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 <213> Homo sapiens

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 <212> PRT  
 <213> Homo sapiens

<400> 13355

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<212> DNA  
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<220>  
<221> CDS  
<222> (1074).. (1415)

<400> 13357



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 <213> Homo sapiens

<400> 13358

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<210> 13361  
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<212> PRT  
<213> Homo sapiens

<400> 13361

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Gln Cys Trp Leu Leu Leu Cys Gly Pro Arg Ser Ile Ser Ala Val Val  
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 50 55 60  
 Trp Ala Val Leu Pro Ala Trp Phe Pro Phe Pro Gly Thr Cys His Cys  
 65 70 75 80  
 Leu Pro Val Ser Leu Arg Gly His Phe Trp Glu Val Arg Pro Trp Pro  
 85 90 95  
 Pro Gly Pro Leu Phe Arg Ser Glu Ala Pro Thr Cys Leu Gly Ser Gly  
 100 105 110  
 Ser Ser Gly Val Arg Pro Cys Pro Pro Gln Asp Ile Pro Ser Lys Pro  
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 Ala Met Ser Gly Asp Gly Pro Leu Pro Gly Lys Phe Leu Phe Leu Leu  
 130 135 140  
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 <212> DNA  
 <213> Homo sapiens

<400> 13362  
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09629469.072800

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<210> 13364

<211> 205

<212> PRT

<213> Homo sapiens

<400> 13364

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          20             25             30
Leu Ala Leu Ala Gly Leu Thr Pro Pro Ser Asp Arg Ala Ile Asp Gly
          35             40             45
Leu Asn Leu Leu Pro Thr Leu Leu Gln Gly Arg Leu Met Asp Arg Pro
          50             55             60
Ile Phe Tyr Tyr Arg Gly Asp Thr Leu Met Ala Ala Thr Leu Gly Gln
          65             70             75             80
His Lys Ala His Phe Trp Thr Trp Thr Asn Ser Trp Glu Asn Phe Arg
          85             90             95
Gln Gly Ile Asp Phe Cys Pro Gly Gln Asn Val Ser Gly Val Thr Thr
          100            105            110
His Asn Leu Glu Asp His Thr Lys Leu Pro Leu Ile Phe His Leu Gly
          115            120            125
Arg Asp Pro Gly Glu Arg Phe Pro Leu Ser Phe Ala Ser Ala Glu Tyr

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09629469-072800

130		135		140	
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Ala Leu Val Pro Ala Gln Pro Gln Leu Asn Val Cys Asn Trp Ala Val					
	165		170		175
Met Asn Trp Ala Pro Pro Gly Cys Glu Lys Leu Gly Lys Cys Leu Thr					
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Pro Pro Glu Ser Ile Pro Lys Lys Cys Leu Trp Ser His					
	195		200		205

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 <213> Homo sapiens

<400> 13365

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<220>

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<221> CDS  
<222> (231).. (1007)

<400> 13366

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<211> 259  
<212> PRT  
<213> Homo sapiens

<400> 13367

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          20             25             30
Gln Glu Ala Met Glu Glu Ser Lys Thr His Phe Arg Ala Val Asp Pro
          35             40             45
Asp Gly Asp Gly His Val Ser Trp Asp Glu Tyr Lys Val Lys Phe Leu
          50             55             60
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09629469 . 072800



Ala Ser Lys Gly His Ser Glu Lys Glu Val Ala Asp Ala Ile Arg Leu  
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Asn Glu Glu Leu Lys Val Asp Glu Glu Thr Gln Glu Val Leu Glu Asn  
85 90 95  
Leu Lys Asp Arg Trp Tyr Gln Ala Asp Ser Pro Pro Ala Asp Leu Leu  
100 105 110  
Leu Thr Glu Glu Glu Phe Leu Ser Phe Leu His Pro Glu His Ser Arg  
115 120 125  
Gly Met Leu Arg Phe Met Val Lys Glu Ile Val Arg Asp Leu Asp Gln  
130 135 140  
Asp Gly Asp Lys Gln Leu Ser Val Pro Glu Phe Ile Ser Leu Pro Val  
145 150 155 160  
Gly Thr Val Glu Asn Gln Gln Gly Gln Asp Ile Asp Asp Asn Trp Val  
165 170 175  
Lys Asp Arg Lys Lys Glu Phe Glu Glu Leu Ile Asp Ser Asn His Asp  
180 185 190  
Gly Ile Val Thr Ala Glu Glu Leu Glu Ser Tyr Met Asp Pro Met Asn  
195 200 205  
Glu Tyr Asn Ala Leu Asn Glu Ala Lys Gln Met Ile Ala Val Ala Asp  
210 215 220  
Glu Asn Gln Asn His His Leu Glu Pro Glu Glu Val Leu Lys Tyr Ser  
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<212> DNA  
<213> Homo sapiens

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<211> 1540

<212> DNA

<213> Homo sapiens

<400> 13369

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<211> 1479

<212> DNA

<213> Homo sapiens

<400> 13370

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092270"69462960

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<400> 13371

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<221> CDS

<222> (51).. (1724)

<400> 13372

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<210> 13373

<211> 558

<212> PRT

<213> Homo sapiens

<400> 13373

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35 40 45  
Thr Phe Arg Thr Ala Arg Gln Val Pro Arg Leu Gly Val Met Leu Val  
50 55 60  
Gly Trp Gly Gly Asn Asn Gly Ser Thr Leu Thr Ala Ala Val Leu Ala  
65 70 75 80  
Asn Arg Leu Arg Leu Ser Trp Pro Thr Arg Ser Gly Arg Lys Glu Ala  
85 90 95  
Asn Tyr Tyr Gly Ser Leu Thr Gln Ala Gly Thr Val Ser Leu Gly Leu  
100 105 110  
Asp Ala Glu Gly Gln Glu Val Phe Val Pro Phe Ser Ala Val Leu Pro  
115 120 125  
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	165	170	175		
Ser Val Tyr Ile Pro Glu Phe Ile Ala Ala Asn Gln Ser Ala Arg Ala					
	180	185	190		
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Arg Asp Ile Arg Asp Phe Arg Ser Ser Ala Gly Leu Asp Lys Val Ile					
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	245	250	255		
Glu Val Ser Pro Ser Thr Leu Phe Ala Val Ala Ser Ile Leu Glu Gly					
	260	265	270		
Cys Ala Phe Leu Asn Gly Ser Pro Gln Asn Thr Leu Val Pro Gly Ala					
	275	280	285		
Leu Glu Leu Ala Trp Gln His Arg Val Phe Val Gly Gly Asp Asp Phe					
	290	295	300		
Lys Ser Gly Gln Thr Lys Val Lys Ser Val Leu Val Asp Phe Leu Ile					
305	310	315	320		
Gly Ser Gly Leu Lys Thr Met Ser Ile Val Ser Tyr Asn His Leu Gly					
	325	330	335		
Asn Asn Asp Gly Glu Asn Leu Ser Ala Pro Leu Gln Phe Arg Ser Lys					
	340	345	350		
Glu Val Ser Lys Ser Asn Val Val Asp Asp Met Val Gln Ser Asn Pro					
	355	360	365		
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	370	375	380		
Tyr Val Pro Tyr Val Gly Asp Ser Lys Arg Ala Leu Asp Glu Tyr Thr					
385	390	395	400		
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Cys Glu Asp Ser Leu Leu Ala Ala Pro Ile Met Leu Asp Leu Ala Leu					
	420	425	430		
Leu Thr Glu Leu Cys Gln Arg Val Ser Phe Cys Thr Asp Met Asp Pro					
	435	440	445		
Glu Pro Gln Thr Phe His Pro Val Leu Ser Leu Leu Ser Phe Leu Phe					
	450	455	460		
Lys Ala Pro Leu Val Pro Pro Gly Ser Pro Val Val Asn Ala Leu Phe					
465	470	475	480		
Arg Gln Arg Ser Cys Ile Glu Asn Ile Leu Arg Ala Cys Val Gly Leu					
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Pro Pro Gln Asn His Met Leu Leu Glu His Lys Met Glu Arg Pro Gly					
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 <212> DNA  
 <213> Homo sapiens

<400> 13374

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<400> 13375

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 <213> Homo sapiens

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<212> PRT

<213> Homo sapiens

<400> 13377

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Ser	Ile	Phe	Lys	Gln	Pro	Val	Thr	Lys	Ile	Thr	Asn	His	Pro	Ser	Asn
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Phe	Trp	Glu	Lys	Lys	Leu	Ser	Gly	Leu	Asn	Ala	Phe	Asp	Ile	Ala	Glu
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Pro	Gly	Cys	Thr	Asp	Glu	Thr	Leu	Leu	Ser	Ala	Ile	Ala	Ser	Ala	Leu

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Lys Asn Pro Gly Val Trp Leu Asn Thr Thr Gln Pro Leu Cys Lys Ala					
	130		135		140
Phe Met Val Thr Asp Glu Asp Ile Arg Lys Gln Glu Glu Leu Val Gln					
	145		150		155
Gln Val Arg Lys Arg Leu Glu Glu Ala Leu Met Ala Asp Met Leu Ala					
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His Val Glu Glu Leu Ala Arg Asp Gly Glu Ala Pro Leu Asp Lys Ala					
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<400> 13379

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<400> 13380

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Val	Thr	Pro	Asp	Arg	Ser	Met	Ile	Ala	Ala	Ala	Gly	Tyr	Gln	His	Ile
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Leu	Arg	Ser	Arg	Asn	Leu	Gln	Cys	Gln	Arg	Ile	Phe	Gln	Val	Asn	Ala
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Pro	Ile	Asn	Cys	Val	Cys	Leu	His	Pro	Asn	Gln	Ala	Glu	Leu	Ile	Val
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				165					170					175	
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			180					185						190	
Cys	Tyr	Val	Trp	Asn	Leu	Thr	Gly	Gly	Ile	Gly	Asp	Glu	Val	Thr	Gln
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225					230					235					240
Gln	Thr	Cys	Lys	Ile	Trp	Arg	Thr	Ser	Asn	Phe	Ser	Leu	Met	Thr	Glu
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Leu	Ser	Ile	Lys	Ser	Gly	Asn	Pro	Gly	Glu	Ser	Ser	Arg	Gly	Trp	Met
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Trp	Gly	Cys	Ala	Phe	Ser	Gly	Asp	Ser	Gln	Tyr	Ile	Val	Thr	Ala	Ser
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<212> DNA

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<213> Homo sapiens

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<400> 13381

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<212> PRT

<213> Homo sapiens

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Gly Ser Leu Asp Glu Gly Val Ala Tyr Gly Ser Tyr Thr Ala Lys Ser  
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Val Thr Gln Tyr Val Phe Leu Ala Gln Arg His Phe Asn Ile Asn Asn  
85 90 95  
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Ile Leu Lys Asn Gly Ala Gly Asn Trp Leu Ala Gln Gln Ile Arg Lys  
145 150 155 160  
His Arg Pro Lys Asp Gly Pro Met Val Pro Ser Thr Ala Gln Arg Trp  
165 170 175  
Ser Thr Leu His Thr Glu Tyr Ile Trp Tyr Asp Pro Gln Leu Thr Pro  
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Gln Pro Pro Ala Asp Tyr Gly Thr Ala Lys Ile His Thr Phe Pro Asn  
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Lys	Trp	Thr	Gly	Glu	Glu	Val	Gly	Asp	Ala	Ala	Gly	Glu	Ile	Ile	Thr
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Ile	Asp	Phe	Lys	Tyr	Ile	Pro	Tyr	Lys	Phe	Met	Asn	Arg	Tyr	Asn	Gly
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625 630 635 640  
Gly His His Met Asp Leu Pro Asp Val Val Ile Thr Ser Leu Pro Gly  
645 650 655  
Ser Gly Ala Glu Ile Leu Lys Gln Pro Phe Phe Asn Ser Ser Asp Phe  
660 665 670  
Leu Tyr Ile Arg Val Pro Thr Ala Tyr Ile Asp Ile Pro Glu Thr Glu  
675 680 685  
Leu Glu Ile Asp Ser Phe Val Asp Ala Cys Glu Trp Lys Val Ser Asp  
690 695 700  
Ile Arg Ser Gly His Phe Arg Leu Leu Arg Gly Trp Leu Gln Ser Leu  
705 710 715 720  
Val Gln Asp Thr Lys Leu His Leu Gln Asn Ile His Leu His Glu Pro  
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cactgtctat tggatgtggg acttccctca ctgatgaaat gaataagaga atcttctca 540  
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gacagcactt ggtaagtctc ctcttcccag catgttcaac aggaagccct cattccctct 660  
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 <212> PRT  
 <213> Homo sapiens

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      20           25           30
Trp Ser Gln Trp Leu Ala Glu Thr Cys Ser Ala Gln Gly Arg Phe Leu
      35           40           45
Ile Pro Ala Val Trp Glu Ala Val Gly Gln Val Glu Pro Gln Val Gly
      50           55           60
Met Arg Glu Gln Ser Leu Gly Gln Ala Pro Gly Trp Thr Pro Ala Thr
      65           70           75           80
Leu Ser Ile Gly Cys Gly Thr Ser Leu Thr Asp Glu Met Asn Lys Arg
      85           90           95
Ile Phe Leu Ile Leu Leu Leu Ala Leu Lys Arg Val Asn Ala
      100           105           110

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<210> 13385  
 <211> 1738  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (126).. (1736)

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ggggatatgaa aatcggcagt gggttcctga gtggcggcgg aggtaccggc agtagcgggt 180
gtagcgggctc cggcggcggt ggtagtggcg gcggcggcgg cggcggcagc agcggcagga 240

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cctcctctac ctccgcagcc cgggcgggtg agcccccccc tccgccagcc ccggacatga 420
ctttcaagaa ggagccggcg gcgtcagccg cggccttccc ctgcgagagg acctcctggg 480
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agtcccacca ccaccatcac caccaccact atgggggggt gttcgttgga gctgaagaga 600
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gcagtagcag gactgatgac caccatggca ctgaggagcc aaagcaggac actaatgtca 780
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catcttccaa accttcttg gttggagatg gagaagggtg catcctctcc ccaagtcaga 900
aacctcatat ctgtgatcac tgtagtgtg ctttccgaag ctctatcac ctgcggagac 960
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gattgttgaa gcacaggcgc acatgtggtg aagtcatagt taaaggagcc actagtgcag 1260
aacctgggtc atcaaaccat accaatatag gtaatctggc tgtgttgtct cagggaata 1320
caagtcttcc aaggagaaaa acaaagtcaa aaagcatagc tattgaaaat aaggaacaga 1380
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agaagagggt gccaaaattg atctttaaga aaggaagcag aaagaatata gataaaaact 1560
accttaactt tgtgtcacca ttaccagaca tagtaggaca gaaatccttg tctggaaaac 1620
caagtggctc acttggcata gtatcaaata atagtgtgga gaccattggt cttctccaaa 1680
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<210> 13386  
 <211> 537  
 <212> PRT  
 <213> Homo sapiens

<400> 13386

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			20					25					30		
Gly	Gly	Ser	Ser	Gly	Arg	Arg	Ala	Glu	Met	Glu	Pro	Thr	Phe	Pro	Gln
			35				40					45			
Gly	Met	Val	Met	Phe	Asn	His	Arg	Leu	Pro	Pro	Val	Thr	Ser	Phe	Thr
			50			55					60				
Arg	Pro	Ala	Gly	Ser	Ala	Ala	Pro	Pro	Pro	Gln	Cys	Val	Leu	Ser	Ser
			65			70				75				80	
Ser	Thr	Ser	Ala	Ala	Pro	Ala	Ala	Glu	Pro	Pro	Pro	Pro	Pro	Ala	Pro
			85					90						95	
Asp	Met	Thr	Phe	Lys	Lys	Glu	Pro	Ala	Ala	Ser	Ala	Ala	Ala	Phe	Pro
			100					105						110	
Ser	Gln	Arg	Thr	Ser	Trp	Gly	Phe	Leu	Gln	Ser	Leu	Val	Ser	Ile	Lys



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			500					505					510	
Thr	Ile	Gly	Leu	Leu	Gln	Ser	Thr	Ser	Gly	Lys	Gln	Gly	Ile	Ser
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Ser	Asn	Tyr	Asp	Asp	Ala	Met	Gln	Phe						
	530					535								

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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (21).. (1328)

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atgggtgatgg acagctaaaa gcagaagagt ttattcttgc aatgcacctt actgacatgg 180  
ccaaagctgg acagccatta ccactgactt tacctcctga gcttgttcct ccatctttca 240  
gaggaggaaa gcaaattgat tccattaatg gaactctgcc ttcatatcag aaaatgcaag 300  
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agcgaggggaa catggagctg gaaaagcgac gccaaagcctt gatggagcag caacaaaggg 420  
aggcagaacg taaagcccag aaagaaaagg aagagtggga acgaaaacag agagaattac 480  
aagaacaaga atggaagaaa caacttgaat tagaaaaacg cttagagaag caacgggaat 540  
tgagagagaca acgagaggaa gaaaggagaa aagacataga aagacgagag gcagcaaaac 600  
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atcaaaagaa tagagaacaa gaagaaattg tcagggttaa ctctaaaaag aagaatcttc 720  
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tccgactcaa aaagcaaaact caaaaagactg agctggaagt tctggataag cagtgtgact 840  
tggaatttat ggaaatcaag caacttcaac aggaacttca ggaatatcag aataagctta 900  
tctatctggt acctgagaag caattattaa atgaaagaat taaaaacatg cagttcagta 960  
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gattagaact aatgcagaaa aagaaactag aagatgaggc tgcaaggaaa gcaaagcaag 1260  
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tccaggaag 1329

<210> 13388  
<211> 436  
<212> PRT  
<213> Homo sapiens

<400> 13388

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Met	Ser	Gly	Tyr	Leu	Ser	Gly	Phe	Gln	Ala	Arg	Asn	Ala	Leu	Leu	Gln
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		20					25						30		
Ile	Asp	Gly	Asp	Gly	Gln	Leu	Lys	Ala	Glu	Glu	Phe	Ile	Leu	Ala	Met
	35					40						45			
His	Leu	Thr	Asp	Met	Ala	Lys	Ala	Gly	Gln	Pro	Leu	Pro	Leu	Thr	Leu
	50					55					60				
Pro	Pro	Glu	Leu	Val	Pro	Pro	Ser	Phe	Arg	Gly	Gly	Lys	Gln	Ile	Asp
	65				70				75						80
Ser	Ile	Asn	Gly	Thr	Leu	Pro	Ser	Tyr	Gln	Lys	Met	Gln	Glu	Glu	Glu
			85					90					95		
Pro	Gln	Lys	Lys	Leu	Pro	Val	Thr	Phe	Glu	Asp	Lys	Arg	Lys	Ala	Asn
		100						105					110		
Tyr	Glu	Arg	Gly	Asn	Met	Glu	Leu	Glu	Lys	Arg	Arg	Gln	Ala	Leu	Met
	115					120						125			
Glu	Gln	Gln	Gln	Arg	Glu	Ala	Glu	Arg	Lys	Ala	Gln	Lys	Glu	Lys	Glu
	130					135					140				
Glu	Trp	Glu	Arg	Lys	Gln	Arg	Glu	Leu	Gln	Glu	Gln	Glu	Trp	Lys	Lys
	145			150						155					160
Gln	Leu	Glu	Leu	Glu	Lys	Arg	Leu	Glu	Lys	Gln	Arg	Glu	Leu	Glu	Arg
			165					170					175		
Gln	Arg	Glu	Glu	Glu	Arg	Arg	Lys	Asp	Ile	Glu	Arg	Arg	Glu	Ala	Ala
	180							185					190		
Lys	Gln	Glu	Leu	Glu	Arg	Gln	Arg	Arg	Leu	Glu	Trp	Glu	Arg	Ile	Arg
	195					200						205			
Arg	Gln	Glu	Leu	Leu	Asn	Gln	Lys	Asn	Arg	Glu	Gln	Glu	Glu	Ile	Val
	210				215					220					
Arg	Leu	Asn	Ser	Lys	Lys	Lys	Asn	Leu	His	Leu	Glu	Leu	Glu	Ala	Leu
	225			230					235						240
Asn	Gly	Lys	His	Gln	Gln	Ile	Ser	Gly	Arg	Leu	Gln	Asp	Val	Arg	Leu
			245					250						255	
Lys	Lys	Gln	Thr	Gln	Lys	Thr	Glu	Leu	Glu	Val	Leu	Asp	Lys	Gln	Cys
		260					265						270		
Asp	Leu	Glu	Ile	Met	Glu	Ile	Lys	Gln	Leu	Gln	Gln	Glu	Leu	Gln	Glu
	275					280						285			
Tyr	Gln	Asn	Lys	Leu	Ile	Tyr	Leu	Val	Pro	Glu	Lys	Gln	Leu	Leu	Asn
	290				295						300				
Glu	Arg	Ile	Lys	Asn	Met	Gln	Phe	Ser	Asn	Thr	Pro	Asp	Ser	Gly	Val
	305			310					315						320
Ser	Leu	Leu	His	Lys	Lys	Ser	Leu	Glu	Lys	Glu	Glu	Leu	Cys	Gln	Arg
			325					330						335	
Leu	Lys	Glu	Gln	Leu	Asp	Ala	Leu	Glu	Lys	Glu	Thr	Ala	Ser	Lys	Leu
		340					345						350		
Ser	Glu	Met	Asp	Ser	Phe	Asn	Asn	Gln	Leu	Lys	Glu	Leu	Arg	Glu	Thr
	355					360						365			
Tyr	Asn	Thr	Gln	Gln	Leu	Ala	Leu	Glu	Gln	Leu	Tyr	Lys	Ile	Lys	Arg
	370					375					380				

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Asp Lys Leu Lys Glu Ile Glu Arg Lys Gly Leu Glu Leu Met Gln Lys  
385 390 395 400  
Lys Lys Leu Glu Asp Glu Ala Ala Arg Lys Ala Lys Gln Gly Lys Glu  
405 410 415  
Asn Leu Trp Lys Glu Asn Leu Arg Lys Glu Glu Glu Glu Lys Gln Lys  
420 425 430  
Arg Leu Gln Glu  
435

<210> 13389  
<211> 1737  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (147).. (1388)

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<211> 414  
<212> PRT  
<213> Homo sapiens

<400> 13390

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Gln	Gln	Leu	Leu	Gln	Leu	Gln	Gln	Leu	Leu	Gln	Gln	Ser	Pro	Pro	Gln		35	40	45	
Ala	Pro	Leu	Pro	Met	Ala	Val	Ser	Arg	Gly	Leu	Pro	Pro	Gln	Gln	Pro		50	55	60	
Gln	Gln	Pro	Leu	Leu	Asn	Leu	Gln	Gly	Thr	Asn	Ser	Ala	Ser	Leu	Leu		65	70	75	80
Asn	Gly	Ser	Met	Leu	Gln	Arg	Ala	Leu	Leu	Leu	Gln	Gln	Leu	Gln	Gly		85	90	95	
Asn	Leu	Arg	Gly	Tyr	Gly	Met	Ala	Ser	Pro	Gly	Leu	Ala	Ala	Pro	Ser		100	105	110	
Leu	Thr	Pro	Pro	Gln	Leu	Ala	Thr	Pro	Asn	Leu	Gln	Gln	Phe	Phe	Pro		115	120	125	
Gln	Ala	Thr	Arg	Gln	Ser	Leu	Gly	Pro	Pro	Pro	Val	Gly	Val	Pro			130	135	140	
Met	Asn	Pro	Ser	Gln	Phe	Asn	Leu	Ser	Gly	Arg	Asn	Pro	Gln	Lys	Gln		145	150	155	160
Ala	Arg	Thr	Ser	Ser	Ser	Thr	Thr	Pro	Asn	Arg	Lys	Asp	Ser	Ser	Ser		165	170	175	
Gln	Thr	Met	Pro	Val	Glu	Asp	Lys	Ser	Asp	Pro	Pro	Glu	Gly	Ser	Glu		180	185	190	
Glu	Ala	Ala	Glu	Pro	Arg	Met	Asp	Thr	Pro	Glu	Asp	Gln	Asp	Leu	Pro		195	200	205	
Pro	Cys	Pro	Glu	Asp	Ile	Ala	Lys	Glu	Lys	Arg	Thr	Pro	Ala	Pro	Glu		210	215	220	
Pro	Glu	Pro	Cys	Glu	Ala	Ser	Glu	Leu	Pro	Ala	Lys	Arg	Leu	Arg	Ser		225	230	235	240
Ser	Glu	Glu	Pro	Thr	Glu	Lys	Glu	Pro	Pro	Gly	Gln	Leu	Gln	Val	Lys		245	250	255	
Ala	Gln	Pro	Gln	Ala	Arg	Met	Thr	Val	Pro	Lys	Gln	Thr	Gln	Thr	Pro		260	265	270	
Asp	Leu	Leu	Pro	Glu	Ala	Leu	Glu	Ala	Gln	Val	Leu	Pro	Arg	Phe	Gln		275	280	285	
Pro	Arg	Val	Leu	Gln	Val	Gln	Ala	Gln	Val	Gln	Ser	Gln	Thr	Gln	Pro		290	295	300	
Arg	Ile	Pro	Ser	Thr	Asp	Thr	Gln	Val	Gln	Pro	Lys	Leu	Gln	Lys	Gln					

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305		310		315		320									
Ala	Gln	Thr	Gln	Thr	Ser	Pro	Glu	His	Leu	Val	Leu	Gln	Gln	Lys	Gln
			325						330					335	
Val	Gln	Pro	Gln	Leu	Gln	Gln	Glu	Ala	Glu	Pro	Gln	Lys	Gln	Val	Gln
			340					345					350		
Pro	Gln	Val	Gln	Pro	Gln	Ala	His	Ser	Gln	Gly	Pro	Arg	Gln	Val	Gln
		355					360					365			
Leu	Gln	Gln	Glu	Ala	Glu	Pro	Leu	Lys	Gln	Val	Gln	Pro	Gln	Val	Gln
	370					375					380				
Pro	Gln	Ala	His	Ser	Gln	Pro	His	Leu	Pro	Gln	Val	Leu	Ser	Gln	Gln
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			405						410						

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 <211> 1493  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (50).. (709)

<400> 13391

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ctattcagga gactgaggcc caagaattgc ttgaatcttc gggaggcgga ggttgcagtg 1440  
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<211> 220  
<212> PRT  
<213> Homo sapiens

<400> 13392  
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Phe Leu Arg Glu Asn His Ser Val Ile Lys Thr Asn Pro Gln Glu Asn  
35 40 45  
Asp Met Phe Phe Asn Val Ile Ala Ile Val Asp Pro Leu Thr Arg Glu  
50 55 60  
Ala Gln Lys Met Ala Gln Leu Leu Val Val Leu Gly Lys Ile Ile Asn  
65 70 75 80  
Met Lys Ile Lys Leu Phe Met Asn Cys Arg Gly Arg Leu Ser Glu Ala  
85 90 95  
Pro Leu Glu Ser Phe Tyr Arg Phe Val Leu Glu Pro Glu Leu Met Ser  
100 105 110  
Gly Ala Asn Asp Val Ser Ser Leu Gly Pro Val Ala Lys Phe Leu Asp  
115 120 125  
Ile Pro Glu Ser Pro Leu Leu Ile Leu Asn Met Ile Thr Pro Glu Gly  
130 135 140  
Trp Leu Val Glu Thr Val His Ser Asn Cys Asp Leu Asp Asn Ile His  
145 150 155 160  
Leu Lys Asp Thr Glu Lys Thr Val Thr Ala Glu Tyr Glu Leu Glu Tyr  
165 170 175  
Leu Leu Leu Glu Gly Gln Cys Phe Asp Lys Val Thr Glu Gln Pro Pro  
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Asp Thr Ile Val Met Ala His His Val Ser Ile Ile  
210 215 220

<210> 13393  
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<212> DNA  
<213> Homo sapiens

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<210> 13394  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1123).. (1437)

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agaactacga ctgtggaacc aaacttccag gactgctaaa gaggaacag tcctcgacag 360
tgaatgcaaa gaagttagag aaggccgagg ctgcacttaa ggcaaagcag gagaagcgct 420

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ctcccacgac cgcaacttct tgaatgccat cgccacagac atcatccacc tgcacagcca 600  
gcggctagat ggttacccgg gagactttga gaccttcato aagagtaagc aggagcggct 660  
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<211> 105  
<212> PRT  
<213> Homo sapiens

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Pro Thr Asn His Leu Asp Met Glu Thr Ile Glu Ala Leu Gly Arg Ala  
35 40 45  
Leu Asn Asn Phe Arg Gly Gly Val Ile Leu Val Ser His Asp Glu Arg  
50 55 60  
Phe Ile Arg Leu Val Cys Arg Glu Leu Trp Val Cys Glu Gly Gly Gly  
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Val Thr Arg Val Glu Gly Gly Phe Asp Gln Tyr Arg Ala Leu Leu Gln  
85 90 95  
Glu Gln Phe Arg Arg Glu Gly Phe Leu  
100 105

<210> 13396

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<211> 1849  
<212> DNA  
<213> Homo sapiens

<220>  
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<400> 13396

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<210> 13397  
<211> 168  
<212> PRT  
<213> Homo sapiens

<400> 13397

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20 25 30  
Pro Asn Ser Thr Ser Ser Trp Phe Thr Glu Ser Asp Thr Pro Gln Thr  
35 40 45  
Asn Val Thr His Val Thr Gln Leu Glu Arg Asp Thr Ile Leu Val Cys  
50 55 60  
Leu Asp Cys Cys Ile Lys Ile Val Asn Leu Gln Gly Arg Leu Lys Ser  
65 70 75 80  
Ser Arg Lys Leu Ser Ser Glu Leu Thr Phe Asp Phe Gln Ile Glu Ser  
85 90 95  
Ile Val Cys Leu Gln Asp Ser Val Leu Ala Phe Trp Lys His Gly Met  
100 105 110  
Gln Gly Arg Ser Phe Arg Ser Asn Glu Val Thr Gln Glu Ile Ser Asp  
115 120 125  
Ser Thr Arg Ile Phe Arg Leu Leu Gly Ser Asp Arg Val Val Val Leu  
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<210> 13398  
<211> 1850  
<212> DNA  
<213> Homo sapiens

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<222> (54).. (386)

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<210> 13399  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

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Pro Leu Val Leu Val His Thr His Met Asp Ile Ser Ile Ser Thr Phe
      35           40           45
Thr Leu Val Ser Lys Asp Lys Ile Lys Thr His Leu Val Met Tyr Leu
      50           55           60
Ile Gly Phe Tyr Ser Arg Phe Met Asn Arg Cys Ser Leu His Ser Asn
      65           70           75           80
Arg Ile Thr Ala Ser Thr Gly Gln Trp Gln Thr Ile Gly Phe Cys Glu
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

<222> (212).. (2110)

<400> 13400

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<210> 13401

<211> 633

<212> PRT

<213> Homo sapiens

<400> 13401

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Thr	Leu	Val	Ser	Thr	Ser	Arg	Thr	Met	Arg	Leu	Cys	Cys	Leu	Gly	Leu	35	40	45	
Cys	Lys	Pro	Lys	Ile	Val	His	Ser	Asn	Trp	Asn	Ile	Leu	Asn	Asn	Phe	50	55	60	
His	Asn	Arg	Met	Gln	Ser	Thr	Asp	Ile	Ile	Arg	Tyr	Leu	Phe	Gln	Asp	65	70	75	80
Ala	Phe	Ile	Phe	Lys	Ser	Asp	Val	Gly	Phe	Gln	Thr	Lys	Gly	Ile	Ser	85	90	95	
Thr	Leu	Thr	Ala	Leu	Arg	Ile	Glu	Arg	Leu	Leu	Tyr	Ala	Lys	Arg	Leu	100	105	110	
Phe	Phe	Asp	Ser	Lys	Gln	Ser	Leu	Val	Pro	Val	Asp	Lys	Ser	Asp	Asp	115	120	125	
Glu	Leu	Lys	Lys	Val	Asn	Leu	Asn	His	Glu	Val	Ser	Asn	Glu	Asp	Val	130	135	140	
Leu	Thr	Lys	Glu	Thr	Lys	Pro	Asn	Arg	Ile	Ser	Ser	Arg	Lys	Leu	Ser	145	150	155	160
Glu	Glu	Cys	Asn	Ser	Leu	Ser	Asp	Val	Leu	Asp	Ala	Phe	Ser	Lys	Ala	165	170	175	
Pro	Thr	Phe	Pro	Ser	Ser	Asn	Tyr	Phe	Thr	Ala	Met	Trp	Thr	Ile	Ala	180	185	190	
Lys	Arg	Leu	Ser	Asp	Asp	Gln	Lys	Arg	Phe	Glu	Lys	Arg	Leu	Met	Phe	195	200	205	
Ser	His	Pro	Ala	Phe	Asn	Gln	Leu	Cys	Glu	His	Met	Met	Arg	Glu	Ala	210	215	220	
Lys	Ile	Met	Gln	Tyr	Lys	Tyr	Leu	Leu	Phe	Ser	Leu	His	Ala	Ile	Val	225	230	235	240
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Leu	Ser	Thr	Val	Leu	Glu	Ala	Met	Glu	Pro	Cys	Lys	Asn	Val	His	Val	275	280	285	
Leu	Arg	Thr	Gly	Phe	Arg	Ile	Leu	Val	Asp	Gln	Gln	Val	Trp	Lys	Ile	290	295	300	
Glu	Asp	Val	Phe	Thr	Leu	Gln	Val	Val	Met	Lys	Cys	Ile	Gly	Lys	Asp	305	310	315	320
Ala	Pro	Ile	Ala	Leu	Lys	Arg	Lys	Leu	Glu	Met	Lys	Ala	Leu	Arg	Glu	325	330	335	
Leu	Asp	Arg	Phe	Ser	Val	Leu	Asn	Ser	Gln	His	Met	Phe	Glu	Val	Leu	340	345	350	

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Ala	Ala	Met	Asn	His	Arg	Ser	Leu	Ile	Leu	Leu	Asp	Glu	Cys	Ser	Lys
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Val	Val	Leu	Asp	Asn	Ile	His	Gly	Cys	Pro	Leu	Arg	Ile	Met	Ile	Asn
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Ile	Leu	Gln	Ser	Cys	Lys	Asp	Leu	Gln	Tyr	His	Asn	Leu	Asp	Leu	Phe
385					390					395					400
Lys	Gly	Leu	Ala	Asp	Tyr	Val	Ala	Ala	Thr	Phe	Asp	Ile	Trp	Lys	Phe
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Arg	Lys	Val	Leu	Phe	Ile	Leu	Ile	Leu	Phe	Glu	Asn	Leu	Gly	Phe	Arg
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Asn	Leu	Leu	Asp	Ala	Val	Tyr	Ser	Phe	Cys	Leu	Met	Asn	Tyr	Phe	Pro
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Leu	Ala	Pro	Phe	Asn	Gln	Leu	Leu	Gln	Lys	Asp	Ile	Ile	Ser	Glu	Leu
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Leu	Thr	Ser	Asp	Asp	Met	Lys	Asn	Ala	Tyr	Lys	Leu	His	Thr	Leu	Asp
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Thr	Cys	Leu	Lys	Leu	Asp	Asp	Thr	Val	Tyr	Leu	Arg	Asp	Ile	Ala	Leu
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Ser	Leu	Pro	Gln	Leu	Pro	Arg	Glu	Leu	Pro	Ser	Ser	His	Thr	Asn	Ala
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Ser	Lys	Asp	Val	His	Leu	Pro	His	Asn	Tyr	His	Ile	Asp	Phe	Glu	Ile
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Arg	Met	Asp	Thr	Asn	Arg	Asn	Gln	Val	Leu	Pro	Leu	Ser	Asp	Val	Ile
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<212> PRT

<213> Homo sapiens

<400> 13403

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Leu Gln Met Phe Arg Ala Gln Trp Met Phe Glu Leu Ala Pro Gly Val
          35             40             45
Ser Ser Ser Asn Leu Glu Asn Arg Pro Cys Arg Ala Ala Arg Gly Ser
          50             55             60
Leu Gln Lys Thr Ser Ala Asp Thr Lys Gly Lys Gln Glu Gln Ala Lys
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Gly	Asp	Gly	Val	Gly	Asn	Ser	Tyr	Ile	Glu	Asp	Asn	Asp	Asp	Asp	Ser
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Lys	Met	Ala	Asp	Leu	Leu	Ser	Tyr	Phe	Gln	Gln	Gln	Leu	Thr	Phe	Gln
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Glu	Ser	Val	Leu	Lys	Leu	Cys	Gln	Pro	Glu	Leu	Glu	Ser	Ser	Gln	Ile
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His	Ile	Ser	Val	Leu	Pro	Met	Glu	Val	Leu	Met	Tyr	Ile	Phe	Arg	Trp
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Leu	Ala	Cys	Leu	Lys	Val	Trp	Gly	Arg	Ser	Cys	Ile	Lys	Leu	Val	Pro
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			245						250					255	
Asp	Gly	Val	Tyr	Ile	Ser	Lys	Thr	Thr	Tyr	Ile	Arg	Gln	Gly	Glu	Gln
		260					265						270		
Ser	Leu	Asp	Gly	Phe	Tyr	Arg	Ala	Trp	His	Gln	Val	Glu	Tyr	Tyr	Arg
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Tyr	Ile	Arg	Phe	Phe	Pro	Asp	Gly	His	Val	Met	Met	Leu	Thr	Thr	Pro
	290					295				300					
Glu	Glu	Pro	Gln	Ser	Ile	Val	Pro	Arg	Leu	Arg	Thr	Arg	Asn	Thr	Arg
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Thr	Asp	Ala	Ile	Leu	Leu	Gly	His	Tyr	Arg	Leu	Ser	Gln	Asp	Thr	Asp
			325						330					335	
Asn	Gln	Thr	Lys	Val	Phe	Ala	Val	Ile	Thr	Lys	Lys	Lys	Glu	Glu	Lys
			340					345					350		
Pro	Leu	Asp	Tyr	Lys	Tyr	Arg	Tyr	Phe	Arg	Arg	Val	Pro	Val	Gln	Glu
		355					360					365			
Ala	Asp	Gln	Ser	Phe	His	Val	Gly	Leu	Gln	Leu	Cys	Ser	Ser	Gly	His
	370					375					380				
Gln	Arg	Phe	Asn	Lys	Leu	Ile	Trp	Ile	His	His	Ser	Cys	His	Ile	Thr
385					390					395					400
Tyr	Lys	Ser	Thr	Gly	Glu	Thr	Ala	Val	Ser	Ala	Phe	Glu	Ile	Asp	Lys
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Met	Tyr	Thr	Pro	Leu	Phe	Phe	Ala	Arg	Val	Arg	Ser	Tyr	Thr	Ala	Phe
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			20					25					30		
Asp	Arg	Trp	Arg	Glu	Ser	Leu	Leu	Ser	Ser	Ala	Ser	Leu	Ser	Gln	Val
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Phe	Leu	His	Leu	Ser	Thr	Leu	Asp	Arg	Ser	Val	Ile	Trp	Ser	Lys	Ser
	50					55					60				
Ile	Leu	Asn	Ala	Arg	Cys	Lys	Ile	Cys	Arg	Lys	Lys	Gly	Asp	Ala	Glu
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Asn	Met	Val	Leu	Cys	Asp	Gly	Cys	Asp	Arg	Gly	His	His	Thr	Tyr	Cys
				85					90					95	
Val	Arg	Pro	Lys	Leu	Lys	Thr	Val	Pro	Glu	Gly	Asp	Trp	Phe	Cys	Pro
			100					105					110		
Glu	Cys	Arg	Pro	Lys	Gln	Arg	Ser	Arg	Arg	Leu	Ser	Ser	Arg	Gln	Arg
		115					120					125			
Pro	Ser	Leu	Glu	Ser	Asp	Glu	Asp	Val	Glu	Asp	Ser	Met	Gly	Gly	Glu
	130					135					140				
Asp	Asp	Glu	Val	Asp	Gly	Asp	Glu	Glu	Glu	Gly	Gln	Ser	Glu	Glu	Glu
145					150					155					160
Glu	Tyr	Glu	Val	Glu	Gln	Asp	Glu	Asp	Asp	Ser	Gln	Glu	Glu	Glu	Glu
				165					170					175	
Val	Ser	Leu	Pro	Lys	Arg	Gly	Arg	Pro	Gln	Val	Arg	Leu	Pro	Val	Lys
			180					185					190		
Thr	Arg	Gly	Lys	Leu	Ser	Ser	Ser	Phe	Ser	Ser	Arg	Gly	Gln	Gln	Gln
	195						200					205			
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	210					215					220				
Thr	Val	Ser	Ser	Lys	Thr	Gly	Arg	Ser	Leu	Arg	Lys	Ile	Asn	Ser	Ala
225					230					235					240
Pro	Pro	Thr	Glu	Thr	Lys	Ser	Leu	Arg	Ile	Ala	Ser	Arg	Ser	Thr	Arg
				245					250					255	
His	Ser	His	Gly	Pro	Leu	Gln	Ala	Asp	Val	Phe	Val	Glu	Leu	Leu	Ser
			260					265					270		
Pro	Arg	Arg	Lys	Arg	Arg	Gly	Arg	Lys	Ser	Ala	Asn	Asn	Thr	Pro	Glu
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Glu	Gln	Ser	Arg	Ser	Val	Asn	Ile	Ala	Ser	Lys	Leu	Ser	Leu	Gln	Glu
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Ser	Glu	Ser	Lys	Arg	Arg	Cys	Arg	Lys	Arg	Gln	Ser	Pro	Glu	Pro	Ser
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 370 375 380  
 Tyr Tyr Asp Ile Ile Lys Lys Pro Ile Ala Leu Asn Ile Ile Arg Glu  
 385 390 395 400  
 Lys Val Asn Lys Cys Glu Tyr Lys Leu Ala Ser Glu Phe Ile Asp Asp  
 405 410 415  
 Ile Glu Leu Met Phe Ser Asn Cys Phe Glu Tyr Asn Pro Arg Asn Thr  
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<400> 13407

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Asn	Gln	Gly	Tyr	Ile	Arg	Asn	Thr	Ser	Ser	Ile	Ser	Pro	Arg	Gly	Tyr
			180					185					190		
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		195				200						205			
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<212> DNA  
<213> Homo sapiens

**<400> 13408**

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1664

<210> 13409  
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<213> Homo sapiens

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Thr Val Asp Ser Ile Thr Pro Leu His Ala Ala Ser Leu Gln Gly Gln  
50 55 60  
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65 70 75 80  
Arg Asn Ile Asp Gly Ser Thr Pro Leu Cys Asp Ala Cys Ala Ser Gly  
85 90 95  
Ser Ile Glu Cys Val Lys Leu Leu Leu Ser Tyr Gly Ala Lys Val Asn  
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<213> Homo sapiens

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<210> 13411

<211> 433

<212> PRT

<213> Homo sapiens

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      20             25             30
Gly Ala Gln Ala Ser Gln Asp Leu Gly Asp Glu Leu Leu Asp Asp Gly
      35             40             45
Glu Asp Glu Glu Asp Glu Asp Glu Ala Trp Lys Ala Phe Asn Gly Gly
      50             55             60
Trp Thr Glu Met Pro Gly Ile Leu Trp Met Glu Pro Thr Gln Pro Pro
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Asp Phe Ala Leu Ala Tyr Arg Pro Ser Phe Pro Glu Asp Arg Glu Pro
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Gln Ile Pro Tyr Pro Glu Pro Thr Trp Pro Pro Pro Leu Ser Ala Pro
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      115            120            125
Val Ser Ala Thr His Pro Thr Leu Pro Ser Ala His Gln Pro Pro Val
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Ile Pro Ala Thr His Pro Ala Leu Ser Arg Asp His Gln Ile Pro Val
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09629469-072800



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<212> PRT

<213> Homo sapiens

<400> 13413

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09629469.072800



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 <212> DNA  
 <213> Homo sapiens

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 <222> (160).. (1422)

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<213> Homo sapiens

<400> 13416

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			20					25					30		
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Glu	Glu	His	Asp	Val	Leu	Leu	Ser	Asn	Glu	Glu	Asp	Arg	Lys	Val	Gly
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Pro	Val	Ala	Ala	Lys	Lys	Asn	Val	Ser	Ile	Asn	Thr	Val	Thr	Tyr	Glu
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	210					215					220				
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 260 265 270  
 Glu Leu Leu Val Asp Met Ile Tyr Phe Trp Lys Asn Glu Lys Leu Tyr  
 275 280 285  
 Cys Gly Arg His Tyr Cys Asp Ser Glu Lys Pro Arg Cys Ala Gly Cys  
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 Gly Glu Ile Tyr Val Met Val Asn Asp Lys Pro Val Cys Lys Pro Cys  
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 Asp Pro Glu Val Gln Arg Val Thr Tyr Asn Asn Phe Ser Trp His Ala  
 370 375 380  
 Ser Thr Glu Cys Phe Leu Cys Ser Cys Cys Ser Lys Cys Leu Ile Gly  
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 Lys Lys Arg Met Ser  
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<211> 2136

<212> DNA

<213> Homo sapiens

<400> 13417

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 <213> Homo sapiens

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 <213> Homo sapiens

<400> 13422

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Phe	Glu	Leu	Glu	Pro	Ser	Pro	Pro	Ser	Gly	Leu	Gly	Phe	Thr	Arg	Gly
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Leu Arg Arg Gly Ala	Lys Lys Thr Thr Gln Arg Ser Arg Glu Asp Leu			
	210	215		220
Ser Ala Leu Thr Arg	Gln Gly Arg Tyr Pro Pro Tyr Glu Arg Val Val			
	225	230		235
Leu Arg Glu Ala Ser	Phe Lys Arg Pro Val Val Ile Leu Gly Pro Val			
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Ala Asp Ile Ala Met	Gln Lys Leu Thr Ala Glu Met Pro Asp Gln Phe			
	260	265		270
Glu Ile Ala Glu Thr	Val Ser Arg Thr Asp Ser Pro Ser Lys Ile Ile			
	275	280		285
Lys Leu Asp Thr Val	Arg Val Ile Ala Glu Lys Asp Lys His Ala Leu			
	290	295		300
Leu Asp Val Thr Pro	Ser Ala Ile Glu Arg Leu Asn Tyr Val Gln Tyr			
	305	310		315
Tyr Pro Ile Val Val	Phe Phe Ile Pro Glu Ser Arg Pro Ala Leu Lys			
	325	330		335
Ala Leu Arg Gln Trp	Leu Ala Pro Ala Ser Arg Arg Ser Thr Arg Arg			
	340	345		350
Leu Tyr Ala Gln Ala	Gln Lys Leu Arg Lys His Ser Ser His Leu Phe			
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Thr Ala Thr Ile Pro	Leu Asn Gly Thr Ser Asp Thr Trp Tyr Gln Glu			
	370	375		380
Leu Lys Ala Ile Ile	Arg Glu Gln Gln Thr Arg Pro Ile Trp Thr Ala			
	385	390		395
Glu Asp Gln Leu Asp	Gly Ser Leu Glu Asp Asn Leu Asp Leu Pro His			
	405	410		415
His Gly Leu Ala Asp	Ser Ser Ala Asp Leu Ser Cys Asp Ser Arg Val			
	420	425		430
Asn Ser Asp Tyr Glu	Thr Asp Gly Glu Gly Gly Ala Tyr Thr Asp Gly			
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Glu Gly Tyr Thr Asp	Gly Glu Gly Gly Pro Tyr Thr Asp Val Asp Asp			
	450	455		460
Glu Pro Pro Ala Pro	Ala Leu Ala Arg Ser Ser Glu Pro Val Gln Ala			
	465	470		475
Asp Glu Ser Gln Ser	Pro Arg Asp Arg Gly Arg Ile Ser Ala His Gln			
	485	490		495
Gly Ala Gln Val Asp	Ser Arg His Pro Gln Gly Gln Trp Arg Gln Asp			
	500	505		510
Ser Met Arg Thr Tyr	Glu Arg Glu Ala Leu Lys Lys Lys Phe Thr Arg			

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<212> DNA  
<213> Homo sapiens

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<222> (379).. (1617)

<400> 13423  
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<211> 413

<212> PRT

<213> Homo sapiens

<400> 13424

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			20					25					30		
Ala	Val	Cys	Ser	Ala	Gly	Gln	Cys	Val	Cys	Pro	Arg	Cys	Glu	His	Pro
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Pro	Pro	Gly	Pro	Val	Cys	Gly	Ser	Asp	Gly	Val	Thr	Tyr	Gly	Ser	Ala
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Cys	Glu	Leu	Arg	Glu	Ala	Ala	Cys	Leu	Gln	Gln	Thr	Gln	Ile	Glu	Glu
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Ala	Arg	Ala	Gly	Pro	Cys	Glu	Gln	Ala	Glu	Cys	Gly	Ser	Gly	Gly	Ser
				85					90					95	
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		100						105					110		
Gly	Gly	Ile	Trp	Asp	Glu	Asp	Ser	Glu	Asp	Gly	Pro	Cys	Val	Cys	Asp
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Phe	Ser	Cys	Gln	Ser	Val	Pro	Gly	Ser	Pro	Val	Cys	Gly	Ser	Asp	Gly
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Pro	Gln	Gly	Ala	Val	Arg	Asp	Asp	Cys	Glu	Gln	Met	Thr	Gly	Leu	Cys
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	340		345	350
Ala Asn Ala Thr Lys Val Cys Gly Ser Asp Gly Val Thr Tyr Gly Asn				
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Glu Cys Gln Leu Lys Thr Ile Ala Cys Arg Gln Gly Leu Arg Gly Ala				
	370		375	380
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<400> 13425

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 <211> 326  
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 <213> Homo sapiens

<400> 13426

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Asp	Asp	Ala	Ser	Pro	Gly	His	Leu	Arg	Ala	Pro	Ala	Glu	Pro	Met	Ala	35	40	45	
Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	50	55	60	
Glu	Glu	Glu	Asp	Glu	Gly	Pro	Ala	Pro	Pro	Ser	Leu	Tyr	Pro	Thr	Val	65	70	75	80
Gln	Ala	Arg	Pro	Gly	Leu	Gly	Pro	Arg	Val	Ile	Leu	Pro	Pro	Arg	Ala	85	90	95	
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Ala	Gly	Leu	Ser	Pro	Lys	Ser	Gly	Ala	Gly	Val	Arg	Ala	Lys	Trp	Leu	115	120	125	
Met	Met	Ala	Glu	Lys	Ser	Gly	Ala	Ala	Val	Ala	Asn	Pro	Pro	Arg	Leu	130	135	140	
Leu	Gln	Val	Ile	Ala	Met	Ser	Lys	Ala	Pro	Gly	Ala	Pro	Gly	Pro	Lys	145	150	155	160
Ala	Ala	Glu	Thr	Ala	Ser	Ser	Ser	Ser	Ala	Ser	Ser	Asp	Ser	Ser	Gln	165	170	175	
Tyr	Arg	Ser	Pro	Ser	Asp	Arg	Asp	Ser	Ala	Ser	Ile	Val	Thr	Ile	Asp	180	185	190	
Ala	His	Ala	Pro	His	His	Pro	Val	Val	His	Leu	Ser	Ala	Gly	Gly	Ala	195	200	205	
Pro	Trp	Glu	Trp	Lys	Ala	Ala	Gly	Gly	Gly	Ala	Lys	Ala	Glu	Ala	Asp	210	215	220	
Gly	Gly	Tyr	Glu	Leu	Gly	Asp	Leu	Ala	Arg	Gly	Phe	Arg	Gly	Gly	Ala	225	230	235	240
Lys	Pro	Pro	Gly	Val	Ser	Pro	Gly	Ser	Ser	Val	Ser	Asp	Val	Asp	Gln	245	250	255	
Glu	Glu	Pro	Arg	Phe	Gly	Ala	Val	Ala	Thr	Val	Asn	Leu	Ala	Thr	Gly	260	265	270	
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<400> 13428

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<213> Homo sapiens

<400> 13429

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<213> Homo sapiens

<400> 13430

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09629469.072800



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<400> 13434

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09629469.072800

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Gln	Thr	Thr	Gly	Ser	Pro	Ser	Arg	Lys	Thr	Ile	Thr	Ile	Thr	Val	Lys
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09629469.072800

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<222> (464).. (826)

<400> 13436

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<213> Homo sapiens

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Pro Thr Phe Glu Gln Val Arg Cys Val Cys Val Cys Val Cys Val Cys
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Val Cys Val Cys Val Cys Val Ser Ala Pro Cys Asp Gly Met Ala Ser
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<212> DNA

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<210> 13439

<211> 1702

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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Thr Gln Val Arg Ser Leu Tyr Val Ser Cys Lys Ser Ser Gly Lys Phe  
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610

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<213> Homo sapiens

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Asp Ala Asn Cys Ser Gly Glu Asp Ala Ala Pro Pro Glu Glu Arg Asp						
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Ile Pro Phe Lys Glu Asn Tyr Asp Val Leu Ser Arg Glu Ala Ser Gln						
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Lys Leu Leu Trp Trp Leu Gln Pro Arg Leu Val Leu Ser Gly His Thr						
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<211> 2308

<212> DNA

<213> Homo sapiens

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tgggaaaaga	ttttatgact	gagacctaaa	agcacaggca	acaaaaacat	gggatcatat	1260
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aatgggagaa aatatttcta aactactcat gcaacagagg attaatatc agaatataga 1380
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<210> 13455  
 <211> 1364  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (590).. (1345)

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gaagaagatg gagagggtta agattatggg gaagaagatt tacagcttag acacatcaag 360
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gagcatcgag gcagtgggtg ctgcgctaga gaagcagaac ggctgagcc tgggcatag 540
cacgtgtccg gaagaggctt tcgtggaggc ctgcgcaggc acagaggaca tggacagtct 600
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acaggaagag atgcgccacc tcagcagga gctggagcgg actcggaggc agctggtaca 720
acaggccaag aagctcaagg agtacggggc acttgtgtct gaaatgaagg agctccgtga 780
ccttaaccgg aggtccagg acgtgctgct cctgaggctt ggcagcggtc ccgccattga 840
tctggaaaaa gtaaagtcag aatgtctcga gcccgagccg gagttacgga gcactttcag 900
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ccagctacaa gtaacccaag gagattccaa gtacacgaag aacttggcag ttatgatttg 1080
gggaacagat gttctgaaaa acagaagcgt cacaggcgtc gccacaaaaa aaaagaaaga 1140

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tgcagtcctt aaaccacccc tctcgccctcg caaactaagc atcgtcagag agtgtttgta 1200  
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 aagggaagca aaatacaatt tgcaataaac tttggatttt tcat 1364

<210> 13456  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<400> 13456

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Leu	Leu	Arg	Asn	Tyr	Gln	Gln	Gln	Gln	Glu	Glu	Met	Arg	His	Leu	Gln	20	25	30	
Gln	Glu	Leu	Glu	Arg	Thr	Arg	Arg	Gln	Leu	Val	Gln	Gln	Ala	Lys	Lys	35	40	45	
Leu	Lys	Glu	Tyr	Gly	Ala	Leu	Val	Ser	Glu	Met	Lys	Glu	Leu	Arg	Asp	50	55	60	
Leu	Asn	Arg	Arg	Leu	Gln	Asp	Val	Leu	Leu	Leu	Arg	Leu	Gly	Ser	Gly	65	70	75	80
Pro	Ala	Ile	Asp	Leu	Glu	Lys	Val	Lys	Ser	Glu	Cys	Leu	Glu	Pro	Glu	85	90	95	
Pro	Glu	Leu	Arg	Ser	Thr	Phe	Ser	Glu	Glu	Ala	Asn	Thr	Ser	Ser	Tyr	100	105	110	
Tyr	Pro	Ala	Pro	Ala	Pro	Val	Met	Asp	Lys	Tyr	Ile	Leu	Asp	Asn	Gly	115	120	125	
Lys	Val	His	Leu	Gly	Ser	Gly	Ile	Trp	Val	Asp	Glu	Glu	Lys	Trp	His	130	135	140	
Gln	Leu	Gln	Val	Thr	Gln	Gly	Asp	Ser	Lys	Tyr	Thr	Lys	Asn	Leu	Ala	145	150	155	160
Val	Met	Ile	Trp	Gly	Thr	Asp	Val	Leu	Lys	Asn	Arg	Ser	Val	Thr	Gly	165	170	175	
Val	Ala	Thr	Lys	Lys	Lys	Lys	Asp	Ala	Val	Pro	Lys	Pro	Pro	Leu	Ser	180	185	190	
Pro	Arg	Lys	Leu	Ser	Ile	Val	Arg	Glu	Cys	Leu	Tyr	Asp	Arg	Ile	Ala	195	200	205	
Gln	Glu	Thr	Val	Asp	Glu	Thr	Glu	Ile	Ala	Gln	Arg	Leu	Ser	Lys	Val	210	215	220	
Asn	Lys	Tyr	Ile	Cys	Glu	Lys	Ile	Met	Asp	Ile	Asn	Lys	Ser	Cys	Lys	225	230	235	240
Asn	Glu	Glu	Arg	Arg	Glu	Ala	Lys	Tyr	Asn	Leu	Gln	245	250						

<210> 13457  
 <211> 1555

009220.69469.072800

<212> DNA  
<213> Homo sapiens

<400> 13457

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ggacacattc attttagtag gaggcagagg tggcctaaca gcaaactcta ggttcaggat 180
ctaattttca tagccttcaa ggatgaatgc aatataaact gtgtagtaga ttgtgatgct 240
cattccaact agggaggcaa gcatttgtac ctgctatcta caaggcacca aataatgcat 300
gtgtcaccat tgctataaat tgtcctcttc caggacctaa ctatttgggt aaagaacct 360
cagttcccat caccacctat gtatgtatgt acaaacataa attagtccaa attctaattt 420
tctcttattt ttctttgtgg aaaaacagat aagaaagctc agtaaaggaa gatataagca 480
attaatgtta cagttcttca atataataat ttgaattaaa tgtactaaga agcaaaaact 540
attagtgttg agactatcat gatgaagctt ttggtttttt taatatattt tcatTTTTTat 600
gcataaaaatc ttaatacata gaattccatg atgtcatcag gcattaacaa tcacttacct 660
tagaaaccaa ctctttttat ctaggcttaa cagggtttgt attaatgtat tggcctagca 720
ctggggccctg ctagatgctc aataaatatt tgcctaatac ctattagaca ttttaaaata 780
tcttttggct gggaacagtg gctcacacct gtaattccag ctctttgaaa ggccaaaagca 840
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cctacaaaaa atggaaattt agccaggcac agtggtatgc acttatggtc cctgctactt 960
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ggctgaggca ggagaactgc ttgaacctgg gaggcagagg ttgcagttag ccgagatgga 1500
gccactgcac tccagcctag gcaacagagt gagactctgt ctcaaaaaaa aaaag 1555
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<210> 13458  
<211> 1487  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS

<222> (1027).. (1341)

<400> 13458

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attgttgagc acagccacgt ttacactgaa tataaacttt attcaccatt ccaggccttg 180
accttatatt caggaatggc agcctggcat ggtgaataga acttattagg gtgcacgta 240
gatttgcctc gtaggggctc aggaattgac acaaatgctg acggagttag aacaagtaaa 300
ttatatgtct ggaagataaa tatttaaata attagattaa gggtggaaat gataaaagtg 360
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tactttgtta taaagattgg agatcccagt aagagtaata tgctctatga aaaattgtaa 420  
gttcttatat tacattatta gtttatgagt acttggttact gttttcacat ttttgcttat 480  
actcatacgg tactcctact ttgctatact cacactgggt tatctcccaa gcctcaggta 540  
gatcatgott ccctgactcc cccagacagg tttttcctgt accctcaaaa catttatcag 600  
tgttctcatt ttatatattat gtgtaatttt acattatgtt cacctttctc ataaattttg 660  
ccagatcagg aaccgtgtct ttggccactg ttacatcccc agaacgttga ctagtgtttt 720  
atgagtagaa gatgctttgt gaacatttgt ttggttaatt aggtaccagt ttggtagcca 780  
atatatgata ctaaagggtt atattgtgaa cgtggaactg tattgaaacg ttaatgttat 840  
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agtgcagcat tccagcgaga ggtgaaagat gtggctgagt ttctgtatca agtcttcatt 1020  
gacagtatgg gtctgaagaa tacaccatca ttcttaatag cctgcaataa gcaagatatt 1080  
gcaatggcaa aatcagcaaa gttaattcaa cagcagctgg agaaagaact caacacctta 1140  
cgagttaccc gttctgctgc ccccagcaca ctggacagtt ccagcactgc ccctgctcag 1200  
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gagtgcagtg ccaagggttg aagaggggac gtgggctctg ctgacatcca ggacttgag 1320  
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acacagtttt ggaaaaaggt ctgtggtagt ctggagttga tgaggaaggg gtacaagatg 1440  
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<210> 13459  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 13459  
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20 25 30  
Lys Glu Leu Asn Thr Leu Arg Val Thr Arg Ser Ala Ala Pro Ser Thr  
35 40 45  
Leu Asp Ser Ser Ser Thr Ala Pro Ala Gln Leu Gly Lys Lys Gly Lys  
50 55 60  
Glu Phe Glu Phe Ser Gln Leu Pro Leu Lys Val Glu Phe Leu Glu Cys  
65 70 75 80  
Ser Ala Lys Gly Gly Arg Gly Asp Val Gly Ser Ala Asp Ile Gln Asp  
85 90 95  
Leu Glu Lys Trp Leu Ala Lys Ile Ala  
100 105

<210> 13460  
<211> 1206  
<212> DNA  
<213> Homo sapiens

00822.0.69469.072800

<220>  
<221> CDS  
<222> (32).. (1084)

<400> 13460

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caggcggcct gtgaacagtc agtgcaatt tgaaagaaga aaaccagatg gaacaacgac 180
gttgggactt ctccatcctg tggatcccat tgtaggagag ccaggctact gccctgtgag 240
actgggaatg acaactggaa gacttcagtc tggagtgaat actttgcagg ggttcaaaga 300
ggataaaaagg aacaaagtca ctccagtgtt atatttgaat tatggggcct acagttctta 360
tgcaccgcat tatgactcca catttgcaaa tatcagcaag gatgattctg atttaatcta 420
ttcaacctat ggggaagact ctgatcttcc aagtgatttc agcatccatg agtttttggc 480
cacgtgccaa gattatccgt atgtcatggc agatagttta ctggatgttt taacaaaagg 540
agggcattcc aggaccctac aagagatgga gatgtcattg cctggagatg aaggccatac 600
taggacactt gacacagcaa aagaaatgga gattacagaa gtagagccac cagggcgttt 660
ggactccagt actcaagaca ggctcatagc gctgaaagca gtaacaaatt ttggcgttcc 720
agttgaagtt tttgactctg aagaagctga aatattccag aagaaacttg atgagaccac 780
cagattgctc agggaaactcc aggaagccca gaatgaacgt ttgagcacca gacccctcc 840
gaacatgato tgtctcttgg gtccctcata cagagaaatg catcttgctg aacaagtgc 900
caataatctt aaagaacttg cacagcaagt aactccaggt gatatcgtaa gcacgtatgg 960
agttcgaaaa gcaatgggga tttccattcc ttcccccgtc atggaaaaca actttgtgga 1020
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<210> 13461  
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<212> PRT  
<213> Homo sapiens

<400> 13461

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          20           25           30
Leu Val Asn Ser Gln Cys Glu Phe Glu Arg Arg Lys Pro Asp Gly Thr
          35           40           45
Thr Thr Leu Gly Leu Leu His Pro Val Asp Pro Ile Val Gly Glu Pro
          50           55           60
Gly Tyr Cys Pro Val Arg Leu Gly Met Thr Thr Gly Arg Leu Gln Ser
          65           70           75           80
Gly Val Asn Thr Leu Gln Gly Phe Lys Glu Asp Lys Arg Asn Lys Val
          85           90           95
Thr Pro Val Leu Tyr Leu Asn Tyr Gly Pro Tyr Ser Ser Tyr Ala Pro
          100          105          110

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09629469.072300



His	Tyr	Asp	Ser	Thr	Phe	Ala	Asn	Ile	Ser	Lys	Asp	Asp	Ser	Asp	Leu
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Ile	Tyr	Ser	Thr	Tyr	Gly	Glu	Asp	Ser	Asp	Leu	Pro	Ser	Asp	Phe	Ser
	130					135					140				
Ile	His	Glu	Phe	Leu	Ala	Thr	Cys	Gln	Asp	Tyr	Pro	Tyr	Val	Met	Ala
145					150					155					160
Asp	Ser	Leu	Leu	Asp	Val	Leu	Thr	Lys	Gly	Gly	His	Ser	Arg	Thr	Leu
				165					170					175	
Gln	Glu	Met	Glu	Met	Ser	Leu	Pro	Gly	Asp	Glu	Gly	His	Thr	Arg	Thr
		180						185					190		
Leu	Asp	Thr	Ala	Lys	Glu	Met	Glu	Ile	Thr	Glu	Val	Glu	Pro	Pro	Gly
	195						200					205			
Arg	Leu	Asp	Ser	Ser	Thr	Gln	Asp	Arg	Leu	Ile	Ala	Leu	Lys	Ala	Val
	210					215					220				
Thr	Asn	Phe	Gly	Val	Pro	Val	Glu	Val	Phe	Asp	Ser	Glu	Glu	Ala	Glu
225					230					235					240
Ile	Phe	Gln	Lys	Lys	Leu	Asp	Glu	Thr	Thr	Arg	Leu	Leu	Arg	Glu	Leu
			245						250					255	
Gln	Glu	Ala	Gln	Asn	Glu	Arg	Leu	Ser	Thr	Arg	Pro	Pro	Pro	Asn	Met
			260					265					270		
Ile	Cys	Leu	Leu	Gly	Pro	Ser	Tyr	Arg	Glu	Met	His	Leu	Ala	Glu	Gln
	275						280					285			
Val	Thr	Asn	Asn	Leu	Lys	Glu	Leu	Ala	Gln	Gln	Val	Thr	Pro	Gly	Asp
	290					295					300				
Ile	Val	Ser	Thr	Tyr	Gly	Val	Arg	Lys	Ala	Met	Gly	Ile	Ser	Ile	Pro
305					310					315					320
Ser	Pro	Val	Met	Glu	Asn	Asn	Phe	Val	Asp	Leu	Thr	Glu	Asp	Thr	Glu
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Glu	Pro	Lys	Lys	Thr	Asp	Val	Ala	Glu	Cys	Gly	Pro	Gly	Gly	Ser	
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<210> 13462  
 <211> 1736  
 <212> DNA  
 <213> Homo sapiens

<400> 13462  
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 ggtggtgaca atagttacat ctctgtgact gctcccgcag agcgggacta ctccatatag 180  
 gcagtgtgct gagagcagca gctcaggaac agtctgcagt catatttata cctgctctta 240  
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 ttccagggtgt tgccatggca atggtaaaact gtcttggtgc aagtgggtgt gtcttatgga 360  
 gaggtgcttt ccatgcctct tccctgtttc ggtcagtcct cagtctggtc cagagtccag 420  
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 aaaaagaaat ggactaaagg gataagaagg tcattagaag gtggtttttac aatggggaga 600

09629469.072800

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tggtttcaca	caccccaccc	cccaaatgt	aactagcaat	gatccgcagg	caaaaaatac	780
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tatttatgac	aaaggtgagg	aacacaaaat	agggaaagga	caatctcttc	aataaatggg	1620
gttgagaata	ccagatatcc	acacgcagaa	gaatgaaaat	tgacgcttat	cttatgccat	1680
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<210> 13463  
 <211> 1990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (115).. (525)

<400> 13463						
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 <213> Homo sapiens

<400> 13464

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		35					40					45			
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	50					55				60					
Pro	Thr	Ala	Pro	Ser	Glu	Ala	Leu	Gly	Leu	Pro	Asp	Leu	Asp	Leu	Cys
	65				70				75					80	
Leu	Pro	Ala	Ser	Ser	Thr	Pro	Ser	Ala	Asp	Ser	Arg	Pro	Ser	Cys	Ile
			85						90					95	
Gly	Ala	Ala	Pro	Leu	Arg	Pro	Val	Ser	Thr	Ser	Asn	Cys	Leu	Asn	Ser
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Ser	His	Ser	Ala	Thr	Pro	Leu	Gly	Ser	Leu	Ser	Ala	Thr	Leu	His	Cys
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09629469.072800

<213> Homo sapiens

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<222> (13).. (981)

<400> 13465

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<211> 323

<212> PRT

<213> Homo sapiens

09629469.072800

<400> 13466

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<211> 1811

<212> DNA

009270.69462960

<213> Homo sapiens

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<222> (208).. (651)

<400> 13467

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<210> 13468

<211> 148

<212> PRT

<213> Homo sapiens

<400> 13468

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 Phe Asn Gln Ile Asn Met Leu Tyr Gly Thr Ile Thr Glu Phe Cys Thr  
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 Glu Ala Ser Cys Pro Val Met Ser Ala Gly Pro Arg Tyr Glu Tyr His  
 85 90 95  
 Trp Ala Asp Gly Thr Asn Ile Lys Lys Pro Ile Lys Cys Ser Ala Pro  
 100 105 110  
 Lys Tyr Ile Asp Tyr Leu Met Thr Trp Val Gln Asp Gln Leu Asp Asp  
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<210> 13470  
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<220>  
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<400> 13470

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 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<400> 13492

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1793

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<211> 454

<212> PRT

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

<400> 13497

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<210> 13498

<211> 1133

<212> DNA

<213> Homo sapiens

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<222> (208).. (834)

<400> 13498

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<400> 13499

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Ser Lys Arg Lys His Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser
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Pro Gly Val Ile Val Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly
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Val Thr Gln Glu Ser Phe Asp Leu Met Ile Lys Glu Asn Pro Ser Ser
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Gln Tyr Trp Lys Glu Val Ala Glu Lys Arg Arg Lys Ala Leu Tyr Glu
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Ala Glu His Val Gln Tyr Met Ala Glu Leu Ile Glu Arg Leu Asn Gly
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Glu Pro Leu Asp Asn Phe Glu Ser Leu Asp Asn Gln Glu Phe Asp Ser
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-7223/13211-

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<212> PRT  
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<211> 315

<212> PRT

<213> Homo sapiens

<400> 13504

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<210> 13511  
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 <213> Homo sapiens

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Ser Cys Val Gly Val Glu Glu Glu Lys Ala Ala Asp Ile Asp Leu Tyr
          35             40             45
His Cys Pro Asn Cys Glu Val Leu His Gly Pro Ser Ile Met Lys Lys
          50             55             60
Arg Arg Gly Ser Ser Lys Gly His Asp Thr His Lys Gly Lys Pro Val
          65             70             75             80

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009240" 69462960

Lys	Thr	Gly	Ser	Pro	Thr	Phe	Val	Arg	Glu	Leu	Arg	Ser	Arg	Thr	Phe	85	90	95
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Val	Glu	Phe	Leu	Glu	Glu	Asn	Ser	Phe	Ser	Val	Pro	Ile	Leu	Val	Leu	115	120	125
Lys	Lys	Asp	Gly	Leu	Gly	Met	Thr	Leu	Pro	Ser	Pro	Ser	Phe	Thr	Val	130	135	140
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Lys	Tyr	Tyr	Tyr	Ser	Gly	Lys	Arg	Glu	Lys	Val	Leu	Asn	Val	Ile	Ser	180	185	190
Leu	Glu	Phe	Pro	Asp	Thr	Arg	Leu	Ser	Asn	Leu	Val	Glu	Thr	Pro	Lys	195	200	205
Ile	Val	Arg	Lys	Leu	Ser	Trp	Val	Glu	Asn	Leu	Trp	Pro	Glu	Glu	Cys	210	215	220
Val	Phe	Glu	Arg	Pro	Asn	Val	Gln	Lys	Tyr	Cys	Leu	Met	Ser	Val	Arg	225	230	235
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Tyr	His	Val	Leu	Lys	Gly	Glu	Lys	Ile	Phe	Tyr	Leu	Ile	Arg	Pro	Thr	260	265	270
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Asn	Glu	Met	Phe	Phe	Gly	Asp	Gln	Val	Asp	Lys	Cys	Tyr	Lys	Cys	Ser	290	295	300
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Ser	Leu	Asn	Ile	Glu	Met	Gln	Leu	Lys	Ala	Tyr	Glu	Ile	Glu	Lys	Arg	340	345	350
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Trp	Tyr	Val	Gly	Lys	His	Ile	Leu	Asp	Ile	Phe	Arg	Gly	Leu	Arg	Glu	370	375	380
Asn	Arg	Arg	His	Pro	Ala	Ser	Tyr	Leu	Val	His	Gly	Gly	Lys	Ala	Leu	385	390	395
Asn	Leu	Ala	Phe	Arg	Ala	Trp	Thr	Arg	Lys	Glu	Ala	Leu	Pro	Asp	His	405	410	415
Glu	Asp	Glu	Ile	Pro	Glu	Thr	Val	Arg	Thr	Val	Gln	Leu	Ile	Lys	Asp	420	425	430
Leu	Ala	Arg	Glu	Ile	Arg	Leu	Val	Glu	Phe	Asn	Ile	Thr	Gly	Ala	Cys	435	440	445
Leu	Asn	Asp	Ser	Asp	Asp	Asp	Ser	Pro	Asp	Leu	Asp	Leu	Asp	Gly	Asn	450	455	460

09629469.072800

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Lys	Ser	Leu	Ser	Lys	Ser	Arg	Arg	Thr	Lys	Ile	Ala	Lys	Lys	Val	Asp
				485					490					495	
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Thr	Glu	Ala	Pro	Ala	Ser	Pro	Ser	Thr	Gln	Glu	Ala	Ile	Gln	Gly	Met
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Ser	Asp	Asp	Ala	Pro	Trp	Ser	Pro	Lys	Ala	Arg	Val	Thr	Pro	Thr	Leu
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<211> 2016

<212> DNA

<213> Homo sapiens

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<400> 13512

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<213> Homo sapiens

<400> 13513

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Asp	Ile	Ile	Asn	Cys	Leu	Lys	Lys	Tyr	Pro	Lys	Ala	Leu	Val	Lys	Tyr	35	40	45	
Leu	Glu	His	Leu	Val	Ile	Asp	Lys	Arg	Leu	Gln	Lys	Glu	Glu	Tyr	His	50	55	60	
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Arg	Arg	Leu	Leu	Gln	Lys	Ser	Asp	Leu	Tyr	Arg	Val	His	Phe	Leu	Leu	100	105	110	
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Leu	Gln	Asp	Phe	Ala	Ala	Ala	Glu	Asp	Tyr	Cys	Leu	Trp	Cys	Ser	Glu	145	150	155	160
Gly	Arg	Asp	Pro	Pro	His	Arg	Gln	Gln	Leu	Phe	His	Thr	Leu	Leu	Ala	165	170	175	
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Leu	Gln	Met	Leu	Pro	Asp	Thr	Trp	Ser	Val	Gln	Leu	Leu	Cys	Pro	Phe	210	215	220	
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Val	Ala	Leu	Gly	Leu	Ala	Arg	Ser	Glu	Asn	Leu	Ile	Tyr	Thr	Tyr	Asp	245	250	255	
Lys	Met	Lys	Leu	Lys	Gly	Ser	Ser	Ile	Gln	Leu	Ser	Asp	Lys	Lys	Leu	260	265	270	
Cys	Gln	Ile	Cys	Gln	Asn	Pro	Phe	Cys	Glu	Pro	Val	Phe	Val	Arg	Tyr	275	280	285	
Pro	Asn	Gly	Gly	Leu	Val	His	Thr	His	Cys	Ala	Ala	Ser	Arg	His	Thr	290	295	300	
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<211> 1517

<212> DNA

<213> Homo sapiens

<400> 13514

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009220.694296

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<211> 456

<212> PRT

<213> Homo sapiens

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			20					25					30		
Met	Leu	Glu	Thr	Phe	Lys	His	Leu	Ala	Ser	Val	Asp	Asn	Glu	Ala	Gln
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Leu	Lys	Ala	Ser	Gly	Ser	Ile	Ser	Gln	Gln	Asp	Thr	Ser	Gly	Glu	Lys
			50				55					60			
Leu	Ser	Leu	Lys	Gln	Lys	Ile	Glu	Lys	Phe	Thr	Arg	Lys	Asn	Ile	Trp
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Ala	Ser	Leu	Leu	Gly	Lys	Asn	Trp	Glu	Glu	His	Ser	Val	Lys	Asp	Lys
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His	Asn	Thr	Lys	Glu	Arg	His	Leu	Ser	Arg	Asn	Pro	Arg	Val	Glu	Arg
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Pro	Cys	Lys	Ser	Ser	Lys	Gly	Asn	Lys	Arg	Gly	Arg	Thr	Phe	Arg	Lys
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Thr	Arg	Asn	Cys	Asn	Arg	His	Leu	Arg	Lys	Asn	Cys	Cys	Thr	Ser	Val
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Ser	Leu	Ile	Arg	His	Lys	Arg	Ala	His	Ser	Gly	Gln	Lys	Leu	Tyr	Lys
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09629469-072800

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 His Thr Gly Glu Lys Pro Tyr Glu Cys Gly Gln Cys Gly Lys Gly Phe  
 225 230 235 240  
 Ser Cys Pro Lys Ser Phe Arg Ala His Val Met Met His Ala Gly Gly  
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 275 280 285  
 Cys Lys Gln Cys Gly Lys Ala Tyr Cys Trp Ala Thr Ser Phe Gln Arg  
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 His Val Arg Ile His Asn Gly Glu Lys Pro Tyr Lys Cys Gly Lys Cys  
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 Gly Lys Ala Phe Gly Trp Pro Ser Ser Leu His Lys His Ala Arg Thr  
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 Val Tyr Lys Cys Glu Thr Cys Gly Lys Thr Tyr Gly Trp Ser Ser Ser  
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 Arg Thr Gln Ile Gly Gln Lys Pro Ser Lys Cys Glu Lys Cys Gly Lys  
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<213> Homo sapiens

<400> 13541

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Gly Ser Ser Arg Pro Asp Ala Asp Ala Ala Arg Ser Pro His Ser Pro
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Arg Pro Lys Gly Ser Phe Tyr His Leu Leu Ala Val Leu Pro Trp Ala  
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 <213> Homo sapiens

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 50 55 60  
 Thr Phe Thr Leu Ala Val Ser Ala Gly Ala Val Leu Leu Leu Pro Phe  
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 Ile Gln Trp Leu Asn Gly Ser Leu Ile His Gly Leu Trp Asn Leu Ala  
 100 105 110  
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 115 120 125  
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 130 135 140  
 Ala Arg Ile Leu Glu Thr Leu Val Met Leu Leu Leu Leu Ala Leu Leu  
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 Ala Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr  
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<213> Homo sapiens

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Leu Pro Leu Ala Cys Leu Arg Ala Gly Ala Arg Asp Arg His Pro Trp					
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Asp Gly His His Pro Ser Pro Gly Leu Leu Pro Ser Leu Ala Val Thr					
		85		90	95
Leu Pro Pro Leu Pro Thr Glu Pro Arg Pro Ala Gly Leu Pro Gly Gly					
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 <212> DNA  
 <213> Homo sapiens

<400> 13546

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<213> Homo sapiens

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 <211> 345  
 <212> PRT  
 <213> Homo sapiens

<400> 13548

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<210> 13549  
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<220>  
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<222> (1144)...(1545)

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<212> PRT

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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<213> Homo sapiens

<400> 13573

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Leu Asp Gln Val Val Val Asp Asn Val Phe Pro Asn Cys Ile Leu Leu
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Leu Lys Leu Pro Gly Leu Glu Lys Leu Leu His His Val Thr Glu Glu
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Lys Gly Asn Pro Glu Ile Asp Asn Lys Lys Tyr Tyr Lys Tyr Ser Lys
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Glu Lys Thr Leu Lys Trp Leu Glu Lys Lys Val Asn Gln Thr Val Ala
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<212> DNA

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<220>

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 35 40 45  
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 50 55 60  
 Leu Asp Arg Ile Tyr Ala Ser Gln Thr Asp Gln Met Val Phe Asn Ala  
 65 70 75 80  
 Tyr Gln Ala Gly Val Gly Ala Leu Lys Leu Ser Met Lys Asp Val Thr  
 85 90 95  
 Val Glu Lys Ala Glu Ser Leu Val Asp Gln Ile Gln Glu Leu Cys Asp  
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His	Val	Val	Leu	Asn	Leu	Asp	Thr	Thr	Ile	Ala	Ile	Thr	Gln	Asn	Phe
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<400> 13578

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<213> Homo sapiens

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      50             55             60
Leu Glu Val Thr Lys Thr Ala Val Thr Thr Val Pro Ser Met Gly Ile
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<213> Homo sapiens

<400> 13581

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 <212> PRT  
 <213> Homo sapiens

<400> 13583

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Gln	Val	Val	Phe	Val	Gly	Asn	Phe	Leu	Arg	Ile	Asn	Thr	Ile	Ala	Met
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 <212> DNA  
 <213> Homo sapiens

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<222> (9).. (581)

<400> 13584

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<212> PRT  
<213> Homo sapiens

<400> 13585

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Leu Ala Asn Leu Glu Arg Gln Ile Tyr Ala Phe Glu Gly Ser Tyr Leu
      35             40             45
Glu Asp Thr Gln Met Tyr Gly Asn Ile Ile Arg Gly Trp Asp Arg Tyr
      50             55             60
Leu Thr Asn Gln Lys Asn Ser Asn Ser Lys Asn Asp Arg Arg Asn Arg
      65             70             75             80
Lys Phe Lys Glu Ala Glu Arg Leu Phe Ser Lys Ser Ser Val Thr Ser

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Lys	Arg	Glu	Pro	Gly	Ser	Gly	Thr	Glu	Ser	Asp	Thr	Ser	Pro	Asp	Phe				
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His	Asn	Gln	Glu	Asn	Glu	Pro	Ser	Gln	Glu	Asp	Pro	Glu	Asp	Leu	Asp				
	130					135				140									
Gly	Ser	Val	Gln	Gly	Val	Lys	Pro	Gln	Lys	Ala	Ala	Ser	Ser	Thr	Ser				
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<210> 13587  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

09629469.072800



<400> 13587

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Glu Gly Lys Lys Gln Lys Arg Gly Arg His Ala Ser Ala Cys Arg Gly
          35           40           45
Glu Arg Ser Arg Asp Arg Arg Ser Arg Gly Gly Ser Ala Thr Lys Glu
          50           55           60
Thr Val Thr Gly Ser Gly Ala Ala Lys Glu Glu Ala Val Leu Pro Gly
          65           70           75           80
Ser Ala Pro Gly His Ser Trp Leu Ala Ala Ala Leu Ser Ala Ala Lys
          85           90           95
Gly His Arg Pro Gly Thr Ala Arg Gly Gly Lys Val Ala Pro Gly Ala
          100          105          110
Glu Ala Ala Glu Arg Ser Pro Arg Arg Arg Pro Asp Trp Leu Pro Arg
          115          120          125
Asn Cys Gly Asp Ser Pro Tyr Ser Glu Leu Gly Leu Arg Phe Pro Gly
          130          135          140
Leu Ser Pro Ser Pro Glu Ala Pro Thr Lys Pro Gly Lys Glu Gly Lys
          145          150          155          160
Asp Ser Gly Gly Ser Ser Ser Met Ser Ala Tyr Ser Arg Lys Pro Val
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<211> 1799

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (404).. (787)

<400> 13588

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<210> 13589  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

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Ala Glu Leu Lys Leu Cys Ala Gly Arg Ser Thr Ala Leu Phe Arg Ala
          35           40           45
Ser Arg Gln Glu Cys Leu Ser Leu Leu Lys Leu His Pro Gln Pro Pro
          50           55           60
Leu Pro Pro Gly Val Leu Ser Gln Gly Asp Gly Ser Phe Ile Cys Lys
          65           70           75           80
Pro Leu Thr Gly Ala Ala Ala Phe Leu Ser Glu Met Pro Cys Pro Glu
          85           90           95
Arg Arg Asn Leu Glu Met Gln Ser Gly Tyr Ser Gly Phe Leu Trp Leu
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<212> DNA

<213> Homo sapiens

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<211> 1651

<212> DNA

<213> Homo sapiens

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<210> 13593

<211> 439

<212> PRT

<213> Homo sapiens

<400> 13593

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35 40 45  
Ala Gly Pro Ala Pro Ala Ala Ala Pro Pro Pro Pro Ser Ser Ala Ser  
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65 70 75 80  
Arg Ile Thr Val Tyr Arg Asn Gly Arg Leu Leu Val Glu Asn Leu Gly  
85 90 95  
Arg Ala Pro Arg Ala Asp Pro Leu His Gly Gln Asn Gly Ser Gly Glu  
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Pro Pro Ala Ala Leu Glu Val Glu Leu Ala Asp Pro Ala Gly Ser Asp  
115 120 125  
Gly Arg Leu Ala Pro Gly Ser Ala Gly Ser Gly Ser Gly Ser  
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 Glu Gln Leu Asp Phe Phe Val Arg Leu Gly Tyr Glu Val Val Ala Pro  
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 Tyr Thr Phe Tyr Ala Leu Ala Glu Asp Met Arg Ala Ile Phe Lys Arg  
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 Tyr Ala Lys Lys Arg Asn Val Leu Ile Gly His Ser Tyr Gly Val Ser  
 245 250 255  
 Phe Cys Thr Phe Leu Ala His Glu Tyr Pro Asp Leu Val His Lys Val  
 260 265 270  
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 Ser Ile Phe Asn Met Pro Thr Cys Val Leu His Cys Leu Ser Pro Cys  
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 Val Tyr His Ala Glu Leu Thr Val Pro Val Leu Leu Val His Gly Met  
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 370 375 380  
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 Met Leu Glu Cys Pro Glu Thr Val Asn Thr Leu Leu His Glu Phe Leu  
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<211> 1818

<212> DNA

<213> Homo sapiens

<400> 13594

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 <213> Homo sapiens  
  
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 <213> Homo sapiens

<400> 13596

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Met Arg Glu Met Phe Phe Glu	Asp His Ile Asp	Asp Ala Lys Tyr Cys
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<400> 13597

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<400> 13598  
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Tyr Gln Lys Arg Ile Ala Gln Gln Leu Glu Arg Glu Arg Ala Leu Ala  
35 40 45  
Arg Gln Leu Leu Arg Asp Gly Arg Lys Glu Arg Ala Lys Leu Leu Leu  
50 55 60  
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 Ser Asn Lys Leu Leu Tyr Ala Lys Asp Ile Pro Ser Tyr Lys Ser Trp  
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Val	Glu	Arg	Tyr	Tyr	Ala	Asp	Ile	Ala	Lys	Leu	Pro	Ala	Ile	Ser	Asp
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Gln	Asp	Met	Asn	Ala	Tyr	Leu	Ala	Glu	Gln	Ser	Arg	Leu	His	Ala	Val
			100					105					110		
Glu	Phe	Asn	Met	Leu	Ser	Ala	Leu	Asn	Glu	Ile	Tyr	Ser	Tyr	Val	Ser
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Lys	Tyr	Ser	Glu	Glu	Leu	Ile	Gly	Ala	Leu	Glu	Gln	Asp	Glu	Gln	Ala
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<212> PRT

<213> Homo sapiens

<400> 13602

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			20					25					30		
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	50				55					60					
Arg	Glu	Lys	Ala	Leu	Val	Glu	Gln	Ser	Gln	Lys	Leu	Gly	Leu	Gln	Asp
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			165					170						175	
Glu	Gln	Arg	Leu	Met	Glu	Glu	Lys	Asn	Lys	Arg	Lys	Lys	Ala	Leu	Leu
			180					185					190		
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	260	265
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Ala Lys Lys Leu Glu Glu Leu Met Gln Gln Leu Asp Val Glu Ala Asp		285
	290	295
Glu Glu Thr Leu Glu Leu Glu Val Glu Val Glu Gly Leu Leu His Lys		300
305	310	315
Gln Glu Val Glu Ser Arg Arg Pro Val Val Arg Leu Glu Arg Pro Phe		320
	325	330
Gln Pro Ala Glu Glu Ser Val Thr Leu Glu Phe Ala Lys Glu Asn Arg		335
	340	345
Lys Cys Gln Glu Gln Ala Val Ser Pro Lys Val Asp Asp Gln Cys Gly		350
	355	360
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385	390	

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 Tyr Leu Gly Asn Ser Leu Arg Gln Glu Ser Asp Leu Lys Lys Ser Thr  
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 Ser Ser Asp Asn Ser Ser Ser His His Gly Glu Asn Lys Gln Asn Leu  
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 Thr Val Asp Pro Cys Asp Ile Leu Gly Gly Val Asp Asn Gln Gln Arg  
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 Glu Ser Phe Phe Lys Val Leu Met His Leu Lys Asp Leu Gly Leu Asn  
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 Phe His Val Ser Val Leu Gly Glu Thr Phe Thr Asp Val Pro Asp Ile  
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			180					185					190						
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		195					200					205							
Tyr	Pro	Glu	Ile	Phe	Pro	Ala	Glu	Tyr	Leu	Tyr	Ser	Thr	Pro	Glu	Gln				
	210					215					220								
Leu	Ser	Lys	Arg	Leu	Gln	Asn	Phe	Cys	Lys	Arg	Pro	Asp	Ile	Ile	Arg				
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Lys	His	Leu	Tyr	Lys	Gly	Glu	Ile	Ala	Pro	Phe	Ser	Trp	Ala	Ala	Leu				
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<400> 13606

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Ser Trp Leu Pro Val Leu Glu Lys Glu Leu Asn Thr Leu Gln Pro Lys
  35           40           45
Asp Thr Phe Arg Leu Trp Leu Thr Ala Glu Val His Pro Asn Phe Thr
  50           55           60
Pro Ile Leu Leu Gln Ser Ser Leu Lys Ile Thr Tyr Glu Ser Pro Pro
  65           70           75           80
Gly Leu Lys Lys Asn Leu Met Arg Thr Tyr Glu Ser Trp Thr Pro Glu
  85           90           95
Gln Ile Ser Lys Lys Asp Asn Thr His Arg Ala His Ala Leu Phe Ser
  100          105          110
Leu Ala Trp Phe His Ala Ala Cys Gln Glu Arg Arg Asn Tyr Ile Pro
  115          120          125
Gln Gly Trp Thr Lys Phe Tyr Glu Phe Ser Leu Ser Asp Leu Arg Ala
  130          135          140
Gly Tyr Asn Ile Ile Asp Arg Leu Phe Asp Gly Ala Lys Asp Val Gln
  145          150          155          160
Trp Glu Phe Val His Gly Leu Leu Glu Asn Ala Ile Tyr Gly Gly Arg
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Ile Asp Asn Tyr Phe Asp Leu Arg Val Leu Gln Ser Tyr Leu Lys Gln
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Phe Phe Asn Ser Ser Val Ile Asp Val Phe Asn Gln Arg Asn Lys Lys
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<211> 1031

<212> DNA

<213> Homo sapiens

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<400> 13608

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<400> 13609

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Thr	Phe	Thr	Val	Leu	Val	His	Thr	Arg	Glu	Ala	Ala	Thr	Arg	Asn	Met
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		180						185					190		
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	210														

<210> 13610  
 <211> 2323

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<212> DNA  
<213> Homo sapiens

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<222> (166).. (498)

<400> 13610

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 <212> PRT  
 <213> Homo sapiens

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 Val Gln Lys Val Ile Ala Asp Glu Glu Gln Lys Ala Leu His Leu Val  
 35 40 45  
 Asp Ile Gln Glu Ala Met Ala Thr Ala His Val Thr Glu Ile Leu Ala  
 50 55 60  
 Asp Ile Gln Ser His Met Asp Arg Leu Met Thr Gln Met Ala Gln Ala  
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 <212> DNA  
 <213> Homo sapiens

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008220.69462960

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 <222> (1205).. (1711)

<400> 13613

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<212> PRT  
<213> Homo sapiens

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Cys Val Phe Phe Pro Leu Phe Ser Lys Arg Lys Lys Thr Asp Arg Arg  
50 55 60  
Pro Val Gln Thr Pro Ala Leu Val Trp Asp Ala Pro Ala Val Ala Gly  
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85 90 95  
Ala Ser Leu Leu Gly Cys Gln Glu Glu Gln Ser Arg Pro Arg Glu Pro  
100 105 110  
Lys Cys Gly His Thr Ala Gly Ala Leu Val Arg Glu Gly Arg Ala Gly  
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<213> Homo sapiens

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          35             40             45
Asp Arg Asn Ala Phe Arg Asn Ile Leu His Val Thr Phe Gly Met Thr
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Asp Asp Met Ile Met Asp Arg Val Phe Arg Gly Phe Asp Lys Asp Asn
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Asp Leu Asn Gly Asp Gly Phe Ile Ser Lys Glu Glu Met Phe His Met  
115 120 125  
Leu Lys Asn Ser Leu Leu Lys Gln Pro Ser Glu Glu Asp Pro Asp Glu  
130 135 140  
Gly Ile Lys Asp Leu Val Glu Ile Thr Leu Lys Lys Met Asp His Asp  
145 150 155 160  
His Asp Gly Lys Leu Ser Phe Ala Asp Tyr Glu Leu Ala Val Arg Glu  
165 170 175  
Glu Thr Leu Leu Leu Glu Ala Phe Gly Pro Cys Leu Pro Asp Pro Lys  
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tgc

1623

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<210> 13626  
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09629469.07800



<212> DNA  
<213> Homo sapiens

<400> 13626

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<210> 13627  
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<220>  
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<400> 13627

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<210> 13628  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

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<400> 13628
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Phe Ser Gly His Pro Leu Val Leu Ser Gln Ser Ser Phe Leu Gln Glu
      20             25             30
Ala Leu Pro Asp Cys Ser Ser Trp Val Arg Asp Pro Thr Ser Val Ser
      35             40             45
Pro Gln Gly Ser Val His Val His His Ser Ser Gly Arg Leu Ser Arg
      50             55             60
Pro Cys Leu Phe Ile Cys Pro Pro His Ser Ile Tyr Trp Glu Phe Leu
      65             70             75             80
Lys Ala Arg Ala Gln Ser Pro Pro Phe Pro Tyr Pro Gln Phe Val Ala
      85             90             95
Gln Asn Lys Gln Leu Leu Asn Ile Leu Glu
      100             105

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<210> 13629  
 <211> 983  
 <212> DNA  
 <213> Homo sapiens

008270-69462960

<220>  
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<222> (164).. (586)

<400> 13629

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<210> 13630  
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<213> Homo sapiens

<400> 13630

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      20           25           30
Phe Ile Ile Thr Leu Leu Ser Ile Ser Lys Asp Gln His Arg Gln Tyr
      35           40           45
Gln Cys Pro Asn Asp Ser Pro Ala Leu Thr Ala Ser Phe Ser Arg Thr
      50           55           60
Thr Leu Leu Lys Ile Lys Arg Ile Tyr Leu Glu Gly Thr Gly Val Leu
      65           70           75           80
Gly Pro Ser Leu Pro Asn Lys Cys Arg Ile Leu Val Ala Arg Thr Val
      85           90           95
Cys Ser Gln Ser Ser Met Asn Ser Gln Arg Trp Ala Arg Pro Ala Ser
      100          105          110
Leu Leu Ser Gly Phe Ser Ser Thr Met Leu Ile Ile Gln Ser Thr Met
      115          120          125
Ala Arg Leu Tyr Ser Lys Pro Pro Trp Gln Lys Arg Arg
      130          135          140

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09629469 . 072800

<210> 13631  
 <211> 2215  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (619)..(918)

<400> 13631

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aaggtttttag aaatactaca tagggtaaag gagaaaatgg gacagattat acagtatgat 240
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gtccaacagc aggcctatgg aatggtaggt tttctgtgca atttgtgatt tcatttttat 360
gtatatgtat ctaataaaaa aaggaacaat tgcttggttt tgaaatgaga aagttttttc 420
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09629469 " 072800

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<211> 100  
<212> PRT  
<213> Homo sapiens

<400> 13632  
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20 25 30  
Arg Leu Pro Lys Glu Asp Trp Val Trp Trp Leu Met Pro Val Ile Leu  
35 40 45  
Ala Leu Trp Ser Leu Arg Gln Val Asp Ser Leu Ser Ser Gly Phe Gln  
50 55 60  
Asp Gln Pro Arg Gln His Val Glu Ile Pro Ser Leu Leu Lys Ile Gln  
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<210> 13633  
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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (241).. (645)

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<210> 13634  
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 <212> PRT  
 <213> Homo sapiens

<400> 13634

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			20					25					30		
Ser	Ser	Pro	Ile	Pro	Pro	Phe	Ser	Arg	His	Phe	Ile	Ile	Asp	Pro	
		35					40				45				
Pro	Phe	Pro	Arg	Pro	Ile	Leu	Gly	Leu	Gly	Arg	Gly	Gly	Gly	Ser	Gln
	50					55				60					
Val	Gly	Val	Arg	Arg	Val	Asp	Lys	Gly	Gln	Leu	Tyr	Phe	Ser	Val	Val
	65				70					75				80	
Ala	Val	Val	Ala	Leu	Gly	Trp	Glu	Lys	Lys	Asp	Tyr	Gln	Ala	Lys	Leu
			85						90					95	
Phe	Leu	Arg	Lys	Asp	Leu	Gly	Leu	Ser	Leu	Ile	Leu	Val	Arg	Gly	Pro
			100					105					110		
Lys	Val	Asp	Glu	Gly	Ser	Glu	Arg	Cys	Pro	Phe	Pro	Ile	Ser	Thr	Gly
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	130					135									

<210> 13635  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (71).. (2152)

0082/0159459.072800

<400> 13635

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<211> 694

<212> PRT

<213> Homo sapiens

<400> 13636

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Phe Asn Val Pro Phe Ile Pro Val Thr Gln Ala Ser Ala Ser Pro Ala  
35 40 45  
Ser Leu Leu Leu Pro Gly Glu Asp Ser Thr Asp Val Gly Glu Glu Asp  
50 55 60  
Ser Phe Leu Gly Gln Thr Ser Ile His Thr Ser Ala Pro Gln Thr Phe  
65 70 75 80  
Ser Tyr Phe Ser Gln Val Ser Ser Ser Ser Asp Pro Phe Gly Asn Ile  
85 90 95  
Gly Gln Ser Pro Leu Thr Thr Ala Ala Thr Ser Val Gly Gln Ser Gly  
100 105 110  
Phe Pro Lys Pro Leu Thr Ala Leu Pro Phe Thr Thr Gly Ser Gln Asp  
115 120 125  
Val Ser Asn Ala Phe Ser Pro Ser Ile Ser Lys Ala Gln Pro Gly Ala  
130 135 140  
Pro Pro Ser Ser Leu Met Gly Ile Asn Ser Tyr Leu Pro Ser Gln Pro  
145 150 155 160  
Ser Ser Leu Pro Pro Ser Tyr Phe Gly Asn Gln Pro Gln Gly Ile Pro  
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Gln Pro Gly Tyr Asn Pro Tyr Arg His Thr Pro Gly Ser Ser Arg Ala  
180 185 190  
Asn Pro Tyr Ile Ala Pro Pro Gln Leu Gln Gln Cys Gln Thr Pro Gly  
195 200 205  
Pro Pro Ala His Pro Pro Pro Ser Gly Pro Pro Val Gln Met Tyr Glu  
210 215 220  
Met Pro Gln Val Asp His Leu Val Phe Val Val His Gly Ile Gly Pro  
225 230 235 240  
Val Cys Asp Leu Arg Phe Arg Ser Ile Ile Glu Cys Val Asp Asp Phe  
245 250 255  
Arg Val Val Ser Leu Lys Leu Leu Arg Thr His Phe Lys Lys Ser Leu  
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Asp Asp Gly Lys Val Ser Arg Val Glu Phe Leu Pro Val His Trp His  
275 280 285  
Ser Ser Leu Gly Gly Asp Ala Thr Gly Val Asp Arg Asn Ile Lys Lys  
290 295 300  
Ile Thr Leu Pro Ser Ile Gly Arg Phe Arg His Phe Thr Asn Glu Thr  
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Val Glu Lys Val Gly Met Glu Ile Asn His Leu His Ala Leu Phe Met  
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Leu Gly Ser Leu Ile Leu Phe Asp Ile Leu Ser Asn Gln Lys Asp Leu  
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Asn Leu Ser Lys Cys Pro Gly Pro Leu Ala Val Ala Asn Gly Val Val  
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Lys Gln Leu His Phe Gln Glu Lys Gln Met Pro Glu Glu Pro Lys Leu  
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 Thr Leu Gln Glu Thr Leu Glu Ala Leu Ser Leu Ser Glu Tyr Phe Ser  
 435 440 445  
 Thr Phe Glu Lys Glu Lys Ile Asp Met Glu Ser Leu Leu Met Cys Thr  
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 Val Asp Asp Leu Lys Glu Met Gly Ile Pro Leu Gly Pro Arg Lys Lys  
 465 470 475 480  
 Ile Ala Asn Phe Val Glu His Lys Ala Ala Lys Leu Lys Lys Ala Ala  
 485 490 495  
 Ser Glu Lys Lys Ala Val Ala Ala Thr Ser Thr Lys Gly Gln Glu Gln  
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 Ser Ala Gln Lys Thr Lys Asp Met Ala Ser Leu Pro Ser Glu Ser Asn  
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 Tyr Asn Ser Leu Asp Phe Glu Pro Glu Ile Phe Phe Ala Leu Gly Ser  
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 Pro Ile Ala Met Phe Leu Thr Ile Arg Gly Val Asp Arg Ile Asp Glu  
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 Asn Tyr Ser Leu Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro  
 595 600 605  
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 625 630 635 640  
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 <212> DNA  
 <213> Homo sapiens  
  
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 <221> CDS  
 <222> (635).. (1576)

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<400> 13637

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<210> 13638

<211> 314

<212> PRT

<213> Homo sapiens

<400> 13638

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 Glu Glu Ser Val Ser Asn Tyr Ser Glu Trp Ala Val Phe Thr Asp Asp  
 35 40 45  
 Ile Asp Gln Phe Lys Thr Gln Lys Val Gln Asp Phe Arg Pro Asn Gln  
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 Glu Ile Gln Ala Met Arg Gln Lys Ser Arg Ala Ser His Leu His Leu

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<210> 13639  
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 <212> DNA  
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cagtccagca	cgcatgtttt	gaataacttc	tacggggcaa	gaattggact	aagtaagact	300
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<210> 13640  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (317).. (775)

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 <211> 153  
 <212> PRT  
 <213> Homo sapiens

<400> 13641

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		20						25					30		
Trp	Pro	Arg	Val	Pro	Gln	Pro	Gln	His	Ser	Ala	Gln	Ser	Leu	Ala	Trp
		35					40					45			
Ser	His	Leu	Met	Thr	Arg	Ser	Cys	Thr	Ser	Ser	Cys	Gly	Pro	Gly	Trp
	50					55					60				
Ala	Pro	Thr	Trp	Asp	Ala	His	Ser	Val	Pro	Asn	Ala	Gly	Pro	Thr	Leu
65					70					75					80
Ser	Leu	Pro	Trp	Ala	Ala	Ser	Asp	Tyr	Asp	Trp	Leu	Arg	Gly	Gly	His
			85						90				95		
His	Gln	Ala	Pro	Ala	Leu	His	Pro	Glu	Leu	Pro	Ser	Pro	Leu	Arg	Val
		100						105					110		
Leu	Gly	Pro	Gln	Lys	Pro	Cys	Cys	Ser	Leu	Thr	Cys	Asp	Gln	Val	Gln
	115					120					125				
Cys	Gly	Glu	Lys	Tyr	Glu	Gly	Gly	Ser	Ser	Pro	Gly	Phe	Ser	Ser	Val
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<210> 13642  
 <211> 977  
 <212> DNA  
 <213> Homo sapiens

<400> 13642

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gaaaatatga	aacatttata	attcttaata	ttctgaaaac	tcttcaagtt	ttcagcatgg	300
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (192).. (1031)

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<210> 13644  
<211> 280  
<212> PRT  
<213> Homo sapiens

<400> 13644  
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His Leu Gly Arg Asp Trp Arg Trp Thr Gln Arg Lys Arg Gln Pro Asp  
20 25 30  
Ser Tyr Phe Ser Val Leu Asn Ala Phe Ile Asp Arg Lys Asp Ser Tyr

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<400> 13645

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<210> 13646  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 13646  
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 Gln Ala Gln Ala Gln His Leu Gln Glu Val Arg Leu Val Pro Gln Asp  
 35 40 45  
 Arg Val Ala Glu Leu His Arg Leu Leu Ser Leu Gln Gly Glu Gln Ala  
 50 55 60  
 Arg Arg Arg Leu Asp Ala Gln Arg Glu Glu His Glu Lys Gln Leu Lys  
 65 70 75 80  
 Ala Thr Glu Glu Arg Val Glu Glu Ala Glu Met Ile Leu Lys Ser Met  
 85 90 95  
 Glu Met Leu Leu Gln Glu Lys Val Asp Lys Leu Lys Glu Gln Phe Glu  
 100 105 110  
 Lys Asn Thr Lys Ser Asp Leu Leu Leu Lys Glu Leu Tyr Val Glu Asn  
 115 120 125  
 Ala His Leu Val Arg Ala Leu Gln Ala Thr Glu Glu Lys Gln Arg Gly  
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<210> 13647  
<211> 1941  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> CDS  
 <222> (107)..(1483)

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<400> 13648

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Asn	Gly	His	Thr	Gln	Lys	Ile	Thr	Ala	Ile	Ile	Thr	Phe	Pro	Ser	Leu
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Glu	Ser	Cys	Glu	Glu	Lys	Asn	Gln	Leu	Ile	Leu	Thr	Ala	Ser	Ala	Asp
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Lys Gln Gln Glu Asn Ala Thr Ser Cys Ser Leu Glu Leu Ile Gly Asp  
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His Gly Leu Val Thr Cys Ser Ala Asp His Leu Ile Ile Leu Trp Lys  
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<212> PRT

<213> Homo sapiens

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Tyr	Leu	Leu	Pro	Glu	Lys	Lys	Pro	Leu	Ala	Arg	Lys	Gly	Leu	Pro	Pro
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			20					25					30		
Gly	Leu	Trp	Leu	Phe	Pro	Glu	Val	Ile	Arg	His	Leu	Pro	Cys	Ile	Val
		35					40					45			
Val	Leu	Pro	Gln	Ser	Ile	Leu	Ser	Arg	Pro	Pro	Thr	Thr	Tyr	Pro	Lys
	50					55					60				
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Pro	Arg	Leu	Leu	Pro	Cys	Ser	Gly	Ser	Thr	Pro	Gly	Pro	Pro	Arg	Leu
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Leu	Pro	Gln	Ala	Leu	Ala	Pro	Pro	Gln	Gly	His	Pro	Gly	Phe	Ser	Ser
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 165 170 175  
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 aaaaaataga ctgcctttgt agcaatagca gatatgggct gcgctttgaa acgaacaggt 540  
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 <211> 1604  
 <212> DNA  
 <213> Homo sapiens

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<210> 13658  
 <211> 1585  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (896).. (1282)

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ttgaacaagt aagggtctatt tgcctcaggg cctggggaaa aattcaggac ccaggaacag 180
ctttccctat taattcaatt agacaaggct ctaaagagcc atatcctgac tttgtggcaa 240
gattacaaga tgctgtctcaa aagtctatta cagatgacaa tgcccgaataa gttattgtag 300
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gaaaagtacc agcaggagtt gatgtaatta cagaatatgt gaaggcttgt gatgggattg 420
gaggagctat gcataaggcg atgctaattg ctcaagcaat gagggggctc actctaggag 480
gacaagttag aacatttggg aaaaaatgtt ataattgttg tcaaatcggt catctgaaaa 540
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009629469.072800

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aggcccccca acaaaactggg gcattcccag ttcaactgtt tgttcctcag ggttttcaag 780
gacaacaacc cctacagaaa ataccaccac ttcagggagt cagccaatta caacaatcca 840
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<210> 13659  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 13659

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Val	Tyr	Gly	Pro	Leu	Pro	Glu	Gly	Arg	Val	Gly	Leu	Ile	Leu	Gly	Arg
			20					25					30		
Ser	Ser	Leu	Asn	Leu	Lys	Gly	Val	Gln	Ile	His	Thr	Gly	Val	Ile	Tyr
		35					40					45			
Ser	Asp	Tyr	Lys	Gly	Gly	Ile	Gln	Leu	Val	Ile	Ser	Ser	Thr	Val	Pro
	50					55				60					
Trp	Ser	Ala	Asn	Pro	Gly	Asp	Arg	Ile	Ala	Gln	Leu	Leu	Leu	Leu	Pro
	65				70				75					80	
Tyr	Val	Lys	Ile	Gly	Glu	Asn	Lys	Thr	Glu	Arg	Thr	Gly	Gly	Phe	Gly
			85					90						95	
Ser	Thr	Asn	Pro	Ala	Gly	Lys	Ala	Thr	Tyr	Trp	Ala	Asn	Gln	Val	Ser
			100					105					110		
Glu	Asp	Arg	Pro	Val	Cys	Thr	Val	Thr	Ile	Gln	Gly	Lys	Ser	Leu	Lys
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Asp

<210> 13660  
 <211> 1689  
 <212> DNA

09629469.072800

<213> Homo sapiens

<220>

<221> CDS

<222> (186).. (1688)

<400> 13660

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aagcgatgaa agagatgtct gcaaacaccg tgctggacag ccagcgtcaa caaaagcatt 240
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agaaattaat tgacgccatg aaaccatttg gagtgtttga agatgaggaa gaattgaacc 360
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<210> 13661

<211> 501

<212> PRT

<213> Homo sapiens

<400> 13661

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Lys His Tyr Gly Ile Thr Ser Pro Ile Ser Leu Ala Ser Pro Lys Glu
          20          25          30

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		50				55					60				
Gly	Lys	Leu	Asn	Asn	Leu	Val	Lys	Glu	Trp	Ile	Ser	Asp	Val	Ser	Glu
		65			70					75					80
Ser	Lys	Asn	Leu	Pro	Pro	Ser	Val	Val	Ala	Thr	Val	Gly	Gly	Lys	Ile
				85					90					95	
Phe	Thr	Phe	Gly	Ser	Tyr	Arg	Leu	Gly	Val	His	Thr	Lys	Gly	Ala	Asp
			100					105					110		
Ile	Asp	Ala	Leu	Cys	Val	Ala	Pro	Arg	His	Val	Glu	Arg	Ser	Asp	Phe
		115					120					125			
Phe	Gln	Ser	Phe	Phe	Glu	Lys	Leu	Lys	His	Gln	Asp	Gly	Ile	Arg	Asn
		130				135					140				
Leu	Arg	Ala	Val	Glu	Asp	Ala	Phe	Val	Pro	Val	Ile	Lys	Phe	Glu	Phe
					150					155					160
Asp	Gly	Ile	Glu	Ile	Asp	Leu	Val	Phe	Ala	Arg	Leu	Ala	Ile	Gln	Thr
				165					170					175	
Ile	Ser	Asp	Asn	Leu	Asp	Leu	Arg	Asp	Ser	Arg	Leu	Arg	Ser	Leu	
			180					185				190			
Asp	Ile	Arg	Cys	Ile	Arg	Ser	Leu	Asn	Gly	Cys	Arg	Val	Thr	Asp	Glu
		195					200					205			
Ile	Leu	His	Leu	Val	Pro	Asn	Lys	Glu	Thr	Phe	Arg	Leu	Thr	Leu	Arg
		210				215					220				
Ala	Val	Lys	Leu	Trp	Ala	Lys	Arg	Arg	Gly	Ile	Tyr	Ser	Asn	Met	Leu
					230					235					240
Gly	Phe	Leu	Gly	Gly	Val	Ser	Trp	Ala	Met	Leu	Val	Ala	Arg	Thr	Cys
				245					250					255	
Gln	Leu	Tyr	Pro	Asn	Ala	Ala	Ala	Ser	Thr	Leu	Val	His	Lys	Phe	Phe
			260					265					270		
Leu	Val	Phe	Ser	Lys	Trp	Glu	Trp	Pro	Asn	Pro	Val	Leu	Leu	Lys	Gln
		275					280					285			
Pro	Glu	Glu	Ser	Asn	Leu	Asn	Leu	Pro	Val	Trp	Asp	Pro	Arg	Val	Asn
					295						300				
Pro	Ser	Asp	Arg	Tyr	His	Leu	Met	Pro	Ile	Ile	Thr	Pro	Ala	Tyr	Pro
					310					315					320
Gln	Gln	Asn	Ser	Thr	Tyr	Asn	Val	Ser	Thr	Ser	Thr	Arg	Thr	Val	Met
				325					330					335	
Val	Glu	Glu	Phe	Lys	Gln	Gly	Leu	Ala	Val	Thr	Asp	Glu	Ile	Leu	Gln
			340					345					350		
Gly	Lys	Ser	Asp	Trp	Ser	Lys	Leu	Leu	Glu	Pro	Pro	Asn	Phe	Phe	Gln
		355					360					365			
Lys	Tyr	Arg	His	Tyr	Ile	Val	Leu	Thr	Ala	Ser	Ala	Ser	Thr	Glu	Glu
		370				375					380				
Asn	His	Leu	Glu	Trp	Val	Gly	Leu	Val	Glu	Ser	Lys	Ile	Arg	Val	Leu
					390					395					400
Val	Gly	Asn	Leu	Glu	Arg	Asn	Glu	Phe	Ile	Thr	Leu	Ala	His	Val	Asn
				405					410					415	

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Pro Gln Ser Phe Pro Gly Asn Lys Glu His His Lys Asp Asn Asn Tyr  
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Val Ser Met Trp Phe Leu Gly Ile Ile Phe Arg Arg Val Glu Asn Ala  
                  435                  440                  445  
Glu Ser Val Asn Ile Asp Leu Thr Tyr Asp Ile Gln Ser Phe Thr Asp  
                  450                  455                  460  
Thr Val Tyr Arg Gln Ala Asn Asn Ile Asn Met Leu Lys Glu Gly Met  
465                  470                  475                  480  
Lys Ile Glu Ala Thr His Val Lys Lys Lys Gln Leu His His Tyr Leu  
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Pro Ala Glu Ile Leu  
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<210> 13662  
<211> 1948  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (607).. (1809)

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<210> 13663  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 13663

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          20           25           30
Ser Ile Glu Ile Tyr Arg Pro Pro Ala Ser Arg Asn Ala Asp Ser Gly
        35           40           45
Val His Leu Asn Arg Leu Gln Phe Gln Gln Gln Gln Asn Ser Ile His
        50           55           60
Ala Ala Lys Gln Leu Asp Met Gln Ser Ser Trp Val Tyr Glu Thr Gly
        65           70           75           80
Arg Leu Cys Glu Pro Glu Val Leu Asn Ser Leu Glu Glu Thr Tyr Ser
          85           90           95
Pro Phe Phe Arg Asn Asn Ser Glu Lys Met Ser Met Glu Asp Glu Asn
          100          105          110
Phe Arg Lys Arg Lys Leu Pro Val Val Ser Ser Val Val Lys Val Lys
          115          120          125
Lys Phe Asn His Asp Gly Glu Glu Glu Glu Glu Asp Asp Asp Tyr Gly
          130          135          140
Ser Arg Thr Gly Ser Ile Ser Ser Ser Val Ser Val Pro Ala Lys Pro
          145          150          155          160
Glu Arg Arg Pro Ser Leu Pro Pro Ser Lys Gln Ala Asn Lys Asn Leu
          165          170          175
Ile Leu Lys Ala Ile Ser Glu Ala Gln Glu Ser Val Thr Lys Thr Thr
          180          185          190
Asn Tyr Ser Thr Val Pro Gln Lys Gln Thr Leu Pro Val Ala Pro Arg
          195          200          205
Thr Arg Thr Ser Gln Glu Glu Leu Leu Ala Glu Val Val Gln Gly Gln
          210          215          220
Ser Arg Thr Pro Arg Ile Ser Pro Pro Ile Lys Glu Glu Glu Thr Lys
          225          230          235          240
Gly Asp Ser Val Glu Lys Asn Gln Ala Glu Met Ser Glu Leu Ser Val

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Cys	Lys	Asn	Gly	Asp	Glu	Cys	Ala	Tyr	His	His	Pro	Ile	Ser	Pro	Cys		
		275					280					285					
Lys	Ala	Phe	Pro	Asn	Cys	Lys	Phe	Ala	Glu	Lys	Cys	Leu	Phe	Val	His		
	290					295					300						
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Thr	His	Val	Ser	Arg	Arg	Ile	Pro	Val	Leu	Ser	Pro	Lys	Pro	Val	Ala		
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	370					375					380						
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Glu																	

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 <211> 1532  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (169).. (849)

<400> 13664  
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 agcgcccgat gccgggcggc cggagccatt gacccgggac gccgccgtcc gctgagcagc 120  
 cgaccacccc gccgcctccg gtgcatgggg actggctgag gagccagcat gggcaactgc 180  
 gtgggggagac agcgccggga gaggccggca gcccggggac acccccgcaa gcgagcagga 240  
 cgcaatgagc ccctgaagaa agagcggcct aagtgggaaga gcgactacc catgactgac 300  
 gggcagctgc ggagcaaacg ggatgagttc tgggacacag cgctgcctt cgagggccgc 360  
 aaggagatct gggatgccct caaggctgcc gcctatgctg ctgaagccaa cgaccacgag 420  
 ctggcccagg ccaccttgga tggagccagc atcacctgc ctcattggac cctctgtgaa 480  
 tgctacgatg agctgggcaa tcgctaccag ctgcccatt actgcctgtc accgccggtg 540  
 aacctgctgc tggagcacac ggaggaggag agcctggagc ccccgagcc tccaccacgc 600  
 gtgcgccgtg agttcccgct gaaggctgcg ctgtccacgg gcaaggacgt gaggctcagc 660  
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 gagccatcgt ggcagcgtg gttcttctcc gggaagctgc tcacagacc cacacggctc 780  
 caggagacca agatccagaa agattttgtc atccaggctc tcacacacca gcccacacca 840  
 cccagaggact gatgggcca cggaccctg ggaagaggcc ccgcctggag cactaggccc 900

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ccaccctgct gctgccttcc agtgctgtca ttttcttcag gggccctccc ctcggtgtgg 960  
ctgggtgggtg agccgtgaag ggaccctgcc tttcagggca ctacgcgcca ccagttcccg 1020  
gtaccacaggg agcaggcagc cacacacggg ccttgcaacc ttgtcagaga aaaggcgaac 1080  
agggccctca ccctgcctgt ctcccgaagc aggttcgagc cacaagggcc aaccaggagg 1140  
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cagggctctgg agcagctgct gtctccctcc tctgccccca tcccctggct ctcccctggg 1260  
cacagtgccca ctcccttgga agggagggaa ccaccctga gcccagggc ttgggaagcc 1320  
tgaggcgggc ctctgcctct ccctgcccc agcacaattg gcagagatga ggcggtgtgt 1380  
ggacggctgg gctgtcgtgg cagggctctgc acagggccat gtccctggctg taaccagggc 1440  
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tgcatattta tcaataaagc cttttgctcc tt 1532

<210> 13665  
<211> 227  
<212> PRT  
<213> Homo sapiens

<400> 13665  
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1 5 10 15  
Gly His Pro Arg Lys Arg Ala Gly Arg Asn Glu Pro Leu Lys Lys Glu  
20 25 30  
Arg Leu Lys Trp Lys Ser Asp Tyr Pro Met Thr Asp Gly Gln Leu Arg  
35 40 45  
Ser Lys Arg Asp Glu Phe Trp Asp Thr Ala Pro Ala Phe Glu Gly Arg  
50 55 60  
Lys Glu Ile Trp Asp Ala Leu Lys Ala Ala Ala Tyr Ala Ala Glu Ala  
65 70 75 80  
Asn Asp His Glu Leu Ala Gln Ala Ile Leu Asp Gly Ala Ser Ile Thr  
85 90 95  
Leu Pro His Gly Thr Leu Cys Glu Cys Tyr Asp Glu Leu Gly Asn Arg  
100 105 110  
Tyr Gln Leu Pro Ile Tyr Cys Leu Ser Pro Pro Val Asn Leu Leu Leu  
115 120 125  
Glu His Thr Glu Glu Glu Ser Leu Glu Pro Pro Glu Pro Pro Pro Ser  
130 135 140  
Val Arg Arg Glu Phe Pro Leu Lys Val Arg Leu Ser Thr Gly Lys Asp  
145 150 155 160  
Val Arg Leu Ser Ala Ser Leu Pro Asp Thr Val Gly Gln Leu Lys Arg  
165 170 175  
Gln Leu His Ala Gln Glu Gly Ile Glu Pro Ser Trp Gln Arg Trp Phe  
180 185 190  
Phe Ser Gly Lys Leu Leu Thr Asp Arg Thr Arg Leu Gln Glu Thr Lys  
195 200 205  
Ile Gln Lys Asp Phe Val Ile Gln Val Ile Ile Asn Gln Pro Pro Pro  
210 215 220  
Pro Gln Asp

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225

<210> 13666  
<211> 1608  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (25).. (1326)

<400> 13666  
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ctgtggactg gccgcccgc gtcagatatg aacaatataa agccattgga aggggtaaaa 180  
attctggatc taacaagagt cctggcgggg ccttttgcta ctatgaattt aggagatctt 240  
ggagcagaag ttataaaaagt ggagagacca ggagctgggt atgatacacg aacttggggg 300  
ccaccttttg ttgggacaga aagtacatat tatctcagt ttaaccgaaa taaaaaaagt 360  
attgctgtta atatcaagga tccaaaagg gtgaaaatca tctattgttc catcacaggg 420  
tatggtcaga caggtccaat ttctcagcga gctgggttat atgctgttgc ctoggctgtt 480  
tctggtctga tgcacatcac agggcctgag aatggagatc cagttcggcc aggagtagct 540  
atgactgac ttgccactgg cctgtatgca tatggagcta ttatggctgg attgatacaa 600  
aaatacaaaa ctgggaaaagg actgttcatt gattgttaacc tgctgtcatc ccagggtggc 660  
tgtttgtctc acatagctgc aaattatctt attggtcaaa aggaagcaaa acgttggggg 720  
acagctcatg gcagtatcgt tccttaccag gcttttaaaa ccaaggatgg ctatattgta 780  
gttggagcag gaaataacca gcagtttgcc accgtctgca agatcttggg ttgacctgag 840  
ttgattgata attccaagta taaaactaac caccttcggg tacacaatag aaaagagctt 900  
attaaaatat tatctgaacg gtttgaagaa gaactgacca gcaagtgggt atatcttttt 960  
gaaggcagtg gattcccgta tggcccaatc aacaacatga agaattgtatt tgcagaacct 1020  
cagaacgctg tctctggctt ccaaagcctg ctgcattcct tggcccatgg ccccttcctt 1080  
catcttcaag gatcagcaag ggtattacac aatggcctcg ttatggagat ggagcatcca 1140  
actgtgggga agatttccgt cccaggccca gctgtgagat acagtaagtt caagatgtca 1200  
gaggccaggc cgcggccctt gctcgggcag cacacaacgc acatcctgaa ggaggtcctg 1260  
agatacgatg acagggccat cggggagctg ctcagcgtg gagtgggtgga ccaacatgaa 1320  
actcactgac aaaggaaaag ggctcttcct cataacctcg atccgaatac actggcaaa 1380  
gcaacacttt gotttgaccc ttctccccag ttctgatacc actaagaaga agatttagag 1440  
taactccaga ttctttacat ggcattctca gaatggctct ggtattaatg aatctagtgc 1500  
cttttaaatg tatcccacgt ttgttccct accatctttt ttttcagatg atgatttcat 1560  
tatggatttg tgggattttt aaaaataaag atttaatttt tttccttg 1608

<210> 13667  
<211> 434  
<212> PRT  
<213> Homo sapiens

<400> 13667

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Met	Pro	Ser	Glu	Thr	His	Ala	Met	Leu	Ala	Thr	Leu	Ala	Arg	Val	Ala	1	5	10	15
Ala	Leu	Arg	Arg	Thr	Cys	Leu	Phe	Ser	Gly	Arg	Gly	Gly	Gly	Arg	Gly	20	25	30	
Leu	Trp	Thr	Gly	Arg	Pro	Gln	Ser	Asp	Met	Asn	Asn	Ile	Lys	Pro	Leu	35	40	45	
Glu	Gly	Val	Lys	Ile	Leu	Asp	Leu	Thr	Arg	Val	Leu	Ala	Gly	Pro	Phe	50	55	60	
Ala	Thr	Met	Asn	Leu	Gly	Asp	Leu	Gly	Ala	Glu	Val	Ile	Lys	Val	Glu	65	70	75	80
Arg	Pro	Gly	Ala	Gly	Asp	Asp	Thr	Arg	Thr	Trp	Gly	Pro	Pro	Phe	Val	85	90	95	
Gly	Thr	Glu	Ser	Thr	Tyr	Tyr	Leu	Ser	Val	Asn	Arg	Asn	Lys	Lys	Ser	100	105	110	
Ile	Ala	Val	Asn	Ile	Lys	Asp	Pro	Lys	Gly	Val	Lys	Ile	Ile	Tyr	Cys	115	120	125	
Ser	Ile	Thr	Gly	Tyr	Gly	Gln	Thr	Gly	Pro	Ile	Ser	Gln	Arg	Ala	Gly	130	135	140	
Tyr	Asp	Ala	Val	Ala	Ser	Ala	Val	Ser	Gly	Leu	Met	His	Ile	Thr	Gly	145	150	155	160
Pro	Glu	Asn	Gly	Asp	Pro	Val	Arg	Pro	Gly	Val	Ala	Met	Thr	Asp	Leu	165	170	175	
Ala	Thr	Gly	Leu	Tyr	Ala	Tyr	Gly	Ala	Ile	Met	Ala	Gly	Leu	Ile	Gln	180	185	190	
Lys	Tyr	Lys	Thr	Gly	Lys	Gly	Leu	Phe	Ile	Asp	Cys	Asn	Leu	Leu	Ser	195	200	205	
Ser	Gln	Val	Ala	Cys	Leu	Ser	His	Ile	Ala	Ala	Asn	Tyr	Leu	Ile	Gly	210	215	220	
Gln	Lys	Glu	Ala	Lys	Arg	Trp	Gly	Thr	Ala	His	Gly	Ser	Ile	Val	Pro	225	230	235	240
Tyr	Gln	Ala	Phe	Lys	Thr	Lys	Asp	Gly	Tyr	Ile	Val	Val	Gly	Ala	Gly	245	250	255	
Asn	Asn	Gln	Gln	Phe	Ala	Thr	Val	Cys	Lys	Ile	Leu	Asp	Leu	Pro	Glu	260	265	270	
Leu	Ile	Asp	Asn	Ser	Lys	Tyr	Lys	Thr	Asn	His	Leu	Arg	Val	His	Asn	275	280	285	
Arg	Lys	Glu	Leu	Ile	Lys	Ile	Leu	Ser	Glu	Arg	Phe	Glu	Glu	Glu	Leu	290	295	300	
Thr	Ser	Lys	Trp	Leu	Tyr	Leu	Phe	Glu	Gly	Ser	Gly	Val	Pro	Tyr	Gly	305	310	315	320
Pro	Ile	Asn	Asn	Met	Lys	Asn	Val	Phe	Ala	Glu	Pro	Gln	Asn	Ala	Val	325	330	335	
Ser	Gly	Phe	Gln	Ser	Leu	Leu	His	Ser	Leu	Ala	His	Gly	Pro	Phe	Leu	340	345	350	
His	Leu	Gln	Gly	Ser	Ala	Arg	Val	Leu	His	Asn	Gly	Leu	Val	Met	Glu	355	360	365	
Met	Glu	His	Pro	Thr	Val	Gly	Lys	Ile	Ser	Val	Pro	Gly	Pro	Ala	Val	370	375	380	

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Arg Tyr Ser Lys Phe Lys Met Ser Glu Ala Arg Pro Pro Pro Leu Leu  
 385 390 395 400  
 Gly Gln His Thr Thr His Ile Leu Lys Glu Val Leu Arg Tyr Asp Asp  
 405 410 415  
 Arg Ala Ile Gly Glu Leu Leu Ser Ala Gly Val Val Asp Gln His Glu  
 420 425 430  
 Thr His

<210> 13668  
 <211> 1772  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (44).. (946)

<400> 13668  
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 cagagcggag gtccgtcaga atgcctatct gccctgcttc tacaccccag ccgccccagg 180  
 gaacctcgtg ccgctctgct ggggcaaagg agcctgtcct gtgtttgaat gtggcaacgt 240  
 ggtgtcagg actgatgaaa gggatgtgaa ttattggaca tccagatact ggctaaatgg 300  
 ggatttcgc aaaggagatg tgtccctgac catagagaat gtgactctag cagacagtgg 360  
 gatctactgc tgccggatcc aaatcccagg cataatgaat gatgaaaaat ttaacctgaa 420  
 gttggtcatc aaaccagcca aggtcacccc tgcaccgact ctgcagagag acttacttgc 480  
 agcctttcca aggatgctta ccaccagggg acatggccca gcagagacac agacactggg 540  
 gagcctccct gatataaatc taacacaaat atccacattg gccaatgagt tacgggactc 600  
 tagattggcc aatgacttac gggactctgg agcaaccatc agaataggca tctacatcgg 660  
 agcagggatc tgtgtcgggc tggctctggc tcttatcttc ggcgctttaa ttttcaaattg 720  
 gtattctcat agcaaagaga agatacagaa tttaagcctc atctcttttg ccaacctccc 780  
 tccctcagga ttggcaaatg cagtagcaga gggaattcgc tcagaagaaa acatctatac 840  
 cattgaagag aacgtatatg aagtggagga gcccaatgag tattattgct atgtcagcag 900  
 caggcagcaa cctcacaac ctttgggttg tcgctttgca atgccataga tccaaccacc 960  
 ttatttttga gcttgggtgt ttgtcttttt cagaaactat gagctgtgtc acctgactgg 1020  
 ttttggaggt tctgtccact gotatggagc agagttttcc cattttcaga agataatgac 1080  
 tcacatggga attgaactgg gacctgcact gaacttaaac aggcattgtc ttgcctctgt 1140  
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 cgggctttta tatacactag gaattcttga cgtggggtct ctggagctcc aggaaattcg 1260  
 ggcacatcat atgtccatga aacttcagat aaactagggg aaactgggtg ctgaggtgaa 1320  
 agcataactt ttttggcaca gaaagtctaa aggggccact gattttcaaa gagatctgtg 1380  
 atcccttttt gttttttgtt tttgagatgt ggcaggagct ccaggggaaa aaggaagtgc 1440  
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 gaccaacttc tgtattcgtg gaccaaaactg aagctatatt tttcacagaa gaagaagcag 1560  
 tgacggggac acaaattctg ttgcctgggtg gaaagaaggc aaaggccttc agcaatctat 1620  
 attaccagcg ctggatcctt tgacagagag tggtccttaa acttaaattt caagacggta 1680

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taggottgat ctgtcttgc tttgttgcc ccctgcgcct agcacaattc tgacacacaa 1740  
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<210> 13669  
<211> 301  
<212> PRT  
<213> Homo sapiens

<400> 13669  
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Leu Leu Thr Arg Ser Ser Glu Val Glu Tyr Arg Ala Glu Val Gly Gln  
20 25 30  
Asn Ala Tyr Leu Pro Cys Phe Tyr Thr Pro Ala Ala Pro Gly Asn Leu  
35 40 45  
Val Pro Val Cys Trp Gly Lys Gly Ala Cys Pro Val Phe Glu Cys Gly  
50 55 60  
Asn Val Val Leu Arg Thr Asp Glu Arg Asp Val Asn Tyr Trp Thr Ser  
65 70 75 80  
Arg Tyr Trp Leu Asn Gly Asp Phe Arg Lys Gly Asp Val Ser Leu Thr  
85 90 95  
Ile Glu Asn Val Thr Leu Ala Asp Ser Gly Ile Tyr Cys Cys Arg Ile  
100 105 110  
Gln Ile Pro Gly Ile Met Asn Asp Glu Lys Phe Asn Leu Lys Leu Val  
115 120 125  
Ile Lys Pro Ala Lys Val Thr Pro Ala Pro Thr Leu Gln Arg Asp Phe  
130 135 140  
Thr Ala Ala Phe Pro Arg Met Leu Thr Thr Arg Gly His Gly Pro Ala  
145 150 155 160  
Glu Thr Gln Thr Leu Gly Ser Leu Pro Asp Ile Asn Leu Thr Gln Ile  
165 170 175  
Ser Thr Leu Ala Asn Glu Leu Arg Asp Ser Arg Leu Ala Asn Asp Leu  
180 185 190  
Arg Asp Ser Gly Ala Thr Ile Arg Ile Gly Ile Tyr Ile Gly Ala Gly  
195 200 205  
Ile Cys Ala Gly Leu Ala Leu Ala Leu Ile Phe Gly Ala Leu Ile Phe  
210 215 220  
Lys Trp Tyr Ser His Ser Lys Glu Lys Ile Gln Asn Leu Ser Leu Ile  
225 230 235 240  
Ser Leu Ala Asn Leu Pro Pro Ser Gly Leu Ala Asn Ala Val Ala Glu  
245 250 255  
Gly Ile Arg Ser Glu Glu Asn Ile Tyr Thr Ile Glu Glu Asn Val Tyr  
260 265 270  
Glu Val Glu Glu Pro Asn Glu Tyr Tyr Cys Tyr Val Ser Ser Arg Gln  
275 280 285  
Gln Pro Ser Gln Pro Leu Gly Cys Arg Phe Ala Met Pro  
290 295 300

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<210> 13670  
 <211> 1610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (29).. (829)

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 ttccatgct gtggctgaat gccgcaaccg ccttctccag gctggcttca gtgaactcaa 180  
 ggagactgag aaatggaata ttaagcccga gagcaagtac ttcatgacca ggaactcctc 240  
 caccatcata gcttttgctg tagggggcca gtacgttcct ggcaatggct tcagcctcat 300  
 cggggccac acggacagcc cctgcctccg ggtgaaacgt cggctctgcc gcagccaggt 360  
 gggcttccag caagtccgtg tggagaccta tgggtgggtgg atctggagca cctggtttga 420  
 ccgtgacctg actctggctg gacgcgtcat tgtcaagtgc cctacctcag gtccgctgga 480  
 gcagcagctg gtgcacgtgg agcggcccat tcttcgcac ccacacctgg ccatccatct 540  
 gcagcgaaat atcaacgaga actttggggc caacacagag atgcattctag tccccattct 600  
 tgccacagcc atccaggagg agctggagaa ggggactcct gagccagggc ctctcaatgc 660  
 tgttgatgag cggcaccatt cggctcctcat gtccctgctc tgtgcccac tggggctgag 720  
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 gggggaatca catgaggtoa ggagttcgag actagcctga ccaccatggt gaaaccctgt 1440  
 ctctaataaa aatacaaaaa ttagctgggc ctggtggtgc atgcctgtaa tccagctac 1500  
 tcaggaggct gaggcacgag aatcctttga acccgggagg cggaagtgtc agtgagccga 1560  
 gatcgagcca ttgcacttca gactgggcaa caagagcgaa ccttcatctc 1610

<210> 13671  
 <211> 267  
 <212> PRT  
 <213> Homo sapiens

<400> 13671  
 Met Gln Val Ala Met Asn Gly Lys Ala Arg Lys Glu Ala Val Gln Thr

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1	5	10	15
Ala Ala Lys Glu Leu Leu Lys Phe Val Asn Arg Ser Pro Ser Pro Phe			
	20	25	30
His Ala Val Ala Glu Cys Arg Asn Arg Leu Leu Gln Ala Gly Phe Ser			
	35	40	45
Glu Leu Lys Glu Thr Glu Lys Trp Asn Ile Lys Pro Glu Ser Lys Tyr			
	50	55	60
Phe Met Thr Arg Asn Ser Ser Thr Ile Ile Ala Phe Ala Val Gly Gly			
65	70	75	80
Gln Tyr Val Pro Gly Asn Gly Phe Ser Leu Ile Gly Ala His Thr Asp			
	85	90	95
Ser Pro Cys Leu Arg Val Lys Arg Arg Ser Arg Arg Ser Gln Val Gly			
	100	105	110
Phe Gln Gln Val Gly Val Glu Thr Tyr Gly Gly Gly Ile Trp Ser Thr			
	115	120	125
Trp Phe Asp Arg Asp Leu Thr Leu Ala Gly Arg Val Ile Val Lys Cys			
130	135	140	
Pro Thr Ser Gly Arg Leu Glu Gln Gln Leu Val His Val Glu Arg Pro			
145	150	155	160
Ile Leu Arg Ile Pro His Leu Ala Ile His Leu Gln Arg Asn Ile Asn			
	165	170	175
Glu Asn Phe Gly Pro Asn Thr Glu Met His Leu Val Pro Ile Leu Ala			
	180	185	190
Thr Ala Ile Gln Glu Glu Leu Glu Lys Gly Thr Pro Glu Pro Gly Pro			
	195	200	205
Leu Asn Ala Val Asp Glu Arg His His Ser Val Leu Met Ser Leu Leu			
210	215	220	
Cys Ala His Leu Gly Leu Ser Pro Lys Asp Ile Val Glu Met Glu Leu			
225	230	235	240
Cys Leu Ala Asp Thr Gln Pro Ala Val Arg Thr Gly Cys Arg Asn Leu			
	245	250	255
Trp Val Lys Gly Leu Gln Asp Pro Gly His Pro			
	260	265	

<210> 13672

<211> 1909

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (517).. (966)

<400> 13672

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gggcgatcct tctctgctc cccttacacg ccaacctatg cccacctggc agccgtggcc 180

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 tctgatgggg ctccactccc tcaccaagc ctgctctcct acattatata cctcacctct 360  
 ggctctcat cccttcggtt tatctaccga acctcctacc ggggctctct gtttgctgtg 420  
 acagtggaca ccctggccaa gcagggtgcc caggggggtg ggcagtgtg gagtttgcca 480  
 aaggatgtgc cagcccctac agtgagtccc catgccatgg gcaagggggc caatttgctg 540  
 gcattacagc tgagtgcag caccctggcc gacatcattg ccaggctgca ggctgggcag 600  
 aaactgtctg gctcctcacc gtttagttct gcctttaact cactcagcct cgacaaggag 660  
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 gaagagacct acaagaagtt gcgtttgctg ggggtgtggc ctgggatgca ggagcatgtg 840  
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 tccaggtgaa ggccagtgc acctcactct ggctggcctt cttagtagtt tcatttctcc 1320  
 ggaagctgag ccagtctcct ggtctagccc aggttgccag aacgcttggc attgcagagt 1380  
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<211> 150

<212> PRT

<213> Homo sapiens

<400> 13673

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 35 40 45  
 Ser Gly Leu Leu Met Phe Lys Gly Asp Lys Lys Pro Arg Val Trp Val  
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<213> Homo sapiens

<400> 13675

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 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1411).. (1884)

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<210> 13677

<211> 158

<212> PRT

<213> Homo sapiens

<400> 13677

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          20             25             30
Glu Lys Ala Phe Asp Lys Ile His His Pro Phe Ile Leu Lys Thr Leu
          35             40             45
Asn Lys Leu Gly Ile Glu Arg Thr Tyr Leu Lys Ile Ile Gly Ile Tyr
          50             55             60
Asp Lys Pro Thr Ala Asn Ile Ile Gln Asn Gly Gln Lys Leu Glu Ile
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Lys Glu Ile Lys Ala Ile Gln Ile Gly Arg Gly Glu Val Asn Leu Pro  
115 120 125  
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<212> DNA  
<213> Homo sapiens

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<222> (405).. (1091)

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<213> Homo sapiens

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Gly Lys Ser Thr Leu Leu His Lys Trp Ala Ser Gly Asn Phe Arg His  
50 55 60  
Glu Tyr Leu Pro Thr Ile Glu Asn Thr Tyr Cys Gln Leu Leu Gly Cys  
65 70 75 80  
Ser His Gly Val Leu Ser Leu His Ile Thr Asp Ser Lys Ser Gly Asp  
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Gly Asn Arg Ala Leu Gln Arg His Val Ile Ala Arg Gly His Ala Phe  
100 105 110  
Val Leu Val Tyr Ser Val Thr Lys Lys Glu Thr Leu Glu Glu Leu Lys  
115 120 125  
Ala Phe Tyr Glu Leu Ile Cys Lys Ile Lys Gly Asn Asn Leu His Lys  
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Phe Pro Ile Val Leu Val Gly Asn Lys Ser Asp Asp Thr His Arg Glu  
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Val Ala Leu Asn Asp Gly Ala Thr Cys Ala Met Glu Trp Asn Cys Ala  
165 170 175  
Phe Met Glu Ile Ser Ala Lys Thr Asp Val Asn Val Gln Glu Leu Phe  
180 185 190  
His Met Leu Leu Asn Tyr Lys Lys Lys Pro Thr Thr Gly Leu Gln Glu  
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<222> (169).. (495)

<400> 13680

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<211> 109

<212> PRT

<213> Homo sapiens

<400> 13681

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Ile Ser Arg Ile Ser Val Gly Ser Arg Ser Gly Tyr Gln Tyr Ile Met
          35             40             45
His Arg Ser Val Gly Cys Leu Lys Ala Lys Gln Glu Asn His Met Asn
          50             55             60
Pro Gly Ser Gly Gly Cys Asn Glu Pro Lys Ser Cys His Cys Ile Leu
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<210> 13682  
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<212> DNA  
<213> Homo sapiens

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<222> (53).. (889)

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<212> PRT  
<213> Homo sapiens

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Gln Ala Ile Asn Ala Gly Ser Ile Glu Gly Thr Leu Glu Trp Glu Asp  
35 40 45  
Phe Gln Gln Arg Met Glu Asn Leu Ser Met Phe Leu Ile Lys Arg Arg  
50 55 60  
Asp Met Thr Arg Met Phe Val His Pro Ser Phe Arg Glu Trp Leu Ile  
65 70 75 80  
Trp Arg Glu Glu Gly Glu Lys Thr Lys Phe Leu Cys Asp Pro Arg Ser  
85 90 95  
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115 120 125  
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130 135 140  
Gln Gly Leu Trp Ile Ser Tyr Ser Thr Glu Gly Leu Ser Met Ala Leu  
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Ala Ser Leu Arg Asn Leu Tyr Thr Pro Asn Ile Lys Val Ser Arg Leu  
165 170 175

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Val Ala Leu Leu Leu Glu Phe Gly Ala Asn Val Asp Ala Ser Ser Glu  
210 215 220  
Ser Gly Leu Thr Pro Leu Gly Tyr Ala Ala Ala Ala Gly Tyr Leu Ser  
225 230 235 240  
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 <212> DNA  
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 <222> (197).. (622)

<400> 13685

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 <211> 142  
 <212> PRT  
 <213> Homo sapiens

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 Ala Pro Gly Gln Gly Ile Asn Ser Thr Leu Gln Met Ser Val Leu Tyr  
 35 40 45  
 Phe Glu Ala Leu Arg His Phe Met Arg Pro Leu Tyr Ser Gly Ile His  
 50 55 60  
 Cys Leu Thr Thr Ala Asp Ile His Asn Ala Met Lys Asn Gly Glu Pro  
 65 70 75 80  
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 85 90 95  
 Phe Pro Ser Ser Leu Phe Pro Gln Pro Asn Lys Lys Leu Lys Gln  
 100 105 110  
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 <222> (721).. (1695)

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 <211> 325  
 <212> PRT  
 <213> Homo sapiens

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 35 40 45

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Gly Phe Lys Ile Ser Ser Leu Asn Lys Ile Ala Asp Thr Lys Ser Ser  
85 90 95  
Ile Asp Lys Asn Ile Thr Leu Leu His Tyr Leu Ile Thr Ile Val Glu  
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Pro Gln Ala Ala Lys Val Asn Met Thr Glu Leu Asp Lys Glu Ile Ser  
130 135 140  
Thr Leu Arg Ser Gly Leu Lys Ala Val Glu Thr Glu Leu Glu Tyr Gln  
145 150 155 160  
Lys Ser Gln Pro Pro Gln Pro Gly Asp Lys Ser Val Ser Val Val Ser  
165 170 175  
Gln Phe Ile Thr Val Ala Ser Phe Ser Phe Ser Asp Val Glu Asp Leu  
180 185 190  
Leu Ala Glu Ala Lys Asp Leu Phe Thr Lys Ala Val Lys His Phe Gly  
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Glu Glu Ala Gly Lys Ile Gln Pro Asp Glu Phe Phe Gly Ile Phe Asp  
210 215 220  
Gln Phe Leu Gln Ala Val Ser Glu Ala Lys Gln Glu Asn Glu Asn Met  
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Ser Gly Glu Val Phe Asp Lys Asp Leu Ser Lys Leu Lys Arg Asn Arg  
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<211> 1442

<212> DNA

<213> Homo sapiens

<400> 13689

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 <213> Homo sapiens

<220>  
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 <213> Homo sapiens

<400> 13691

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<213> Homo sapiens

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 Phe Met Gln Leu Val Glu Leu Asp Val Ser Arg Asn Glu Ile Pro Glu  
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 Ile Pro Glu Ser Ile Ser Phe Cys Lys Ala Leu Gln Val Ala Asp Phe  
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<212> PRT

<213> Homo sapiens

<400> 13697

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Ala	Arg	Lys	Ser	Ser	Gly	Thr	Gly	Thr	Glu	Pro	Val	Ala	Lys	Leu	Lys	145	150	155	160
Asn	Gly	Gln	Glu	Gly	Glu	Ile	Gly	His	Phe	Asp	Ser	Val	Pro	Asn	Ile	165	170	175	
Gln	Asp	Asp	Cys	Asn	Gly	Phe	Gln	Asp	Ser	Asp	Asp	Phe	Ala	Asp	Phe	180	185	190	
Ser	Ser	Ala	Gly	Pro	Ser	Gln	Val	Val	Asp	Trp	Asn	Ala	Phe	Glu	Asp	195	200	205	
Glu	Gln	Lys	Asp	Ser	Cys	Ser	Trp	Ala	Ala	Phe	Gly	Asp	Gln	Gln	Ala	210	215	220	
Thr	Glu	Ser	His	His	Arg	Lys	Glu	Ala	Trp	Gln	Ser	His	Arg	Thr	Asp	225	230	235	240
Glu	Asn	Ile	Asp	Thr	Pro	Gly	Thr	Pro	Lys	Thr	His	Ser	Val	Pro	Ser	245	250	255	
Ala	Thr	Ser	Lys	Gly	Ala	Val	Ala	Ser	Gly	His	Leu	Gln	Glu	Ser	Ala	260	265	270	
Thr	Ser	Val	Gln	Thr	Ala	Leu	Leu	Asn	Arg	Leu	Glu	Arg	Ile	Phe	Glu	275	280	285	
Ala	Cys	Phe	Pro	Ser	Ile	Leu	Val	Pro	Asp	Ala	Glu	Glu	Glu	Val	Thr	290	295	300	
Ser	Leu	Lys	His	Leu	Leu	Glu	Thr	Ser	Thr	Leu	Pro	Ile	Lys	Thr	Arg	305	310	315	320
Glu	Ala	Leu	Pro	Glu	Ser	Gly	Glu	Leu	Leu	Asp	Val	Trp	Thr	Glu	Leu	325	330	335	
Gln	Asp	Ile	His	Asp	Ala	His	Gly	Leu	Arg	Tyr	Gln	Trp	Gly	Gly	Ser	340	345	350	

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His Ser Asn Lys Lys Leu Leu Ser Ser Leu Gly Ile Gly Thr Arg Asn  
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 Ile Leu Phe Thr Gly Asn Lys Lys Gln Pro Val Ile Val Pro Met Tyr  
 370 375 380  
 Ala Ala Gly Leu Gly Met Leu Glu Pro Thr Lys Glu Pro Leu Lys Pro  
 385 390 395 400  
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 Ser Pro Asp Met Asn Thr Cys Thr Ser Asp Gln Phe Gln Glu Ser Leu  
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 Pro Pro Val Gln Phe Asp Trp Ser Ser Ser Gly Leu Thr Asn Pro Leu  
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 Val Asp Asp Ser Ser Ser Ser Ser Thr Thr Ile Pro Gly Val Asp  
 465 470 475 480  
 Pro Glu Leu Tyr Glu Leu Thr Thr Ser Lys Leu Glu Ile Ser Thr Ser  
 485 490 495  
 Ser Leu Lys Val Thr Asp Ala Phe Ala Arg Leu Met Ser Thr Val Glu  
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 Lys Thr Ser Thr Ser Thr Ser Arg Lys Pro Lys Arg Glu His Leu  
 515 520 525  
 Ser Glu Glu Ala Ile Lys Val Ile Ala Gly Leu Pro Asp Leu Thr Phe  
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 <222> (8).. (859)

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taaagattgg gctcccaaag catttataat ttcttttaag ttggagactg accccgccat 720
tgtaattaat cgagctcgga aggctttgga aatttatcag catcaagtgg tggtaggctaa 780
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aaaatcaagt gcaataaagt gtgtgtccaa aagctgacac aatggaaagg 1430

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 <212> PRT  
 <213> Homo sapiens

<400> 13699

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Gln Gly Arg Arg Val Val Leu Val Thr Ser Gly Gly Thr Lys Val Pro
          35          40          45
Leu Glu Ala Arg Pro Val Arg Phe Leu Asp Asn Phe Ser Ser Gly Arg
          50          55          60
Arg Gly Ala Thr Ser Ala Glu Ala Phe Leu Ala Ala Gly Tyr Gly Val
          65          70          75          80
Leu Phe Leu Tyr Arg Ala Arg Ser Ala Phe Pro Tyr Ala His Arg Phe
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Pro Pro Gln Thr Trp Leu Ser Ala Leu Arg Pro Ser Gly Pro Ala Leu
          100          105          110
Ser Gly Leu Leu Ser Leu Glu Ala Glu Glu Asn Ala Leu Pro Gly Phe
          115          120          125
Ala Glu Ala Leu Arg Ser Tyr Gln Glu Ala Ala Ala Ala Gly Thr Phe
          130          135          140
Leu Ala Val Glu Phe Thr Thr Leu Ala Asp Tyr Leu His Leu Leu Gln
          145          150          155          160
Ala Ala Ala Gln Ala Leu Asn Pro Leu Gly Pro Ser Ala Met Phe Tyr
          165          170          175
Leu Ala Ala Ala Val Ser Asp Phe Tyr Val Pro Val Ser Glu Met Pro
          180          185          190

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 Met Val Pro Lys Leu Leu Ser Pro Leu Val Lys Asp Trp Ala Pro Lys  
 210 215 220  
 Ala Phe Ile Ile Ser Phe Lys Leu Glu Thr Asp Pro Ala Ile Val Ile  
 225 230 235 240  
 Asn Arg Ala Arg Lys Ala Leu Glu Ile Tyr Gln His Gln Val Val Val  
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 <213> Homo sapiens

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35 40 45  
Gly Ala Gly Ala Arg Ala Ser Thr Gln Pro Gln Arg Leu Pro Glu Pro  
50 55 60  
Val Pro Arg Ala Gly Ala Gly Ala Gly Ala Gly Pro Gly Pro Gly Pro  
65 70 75 80  
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<220>  
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 <212> PRT  
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 Pro Glu Val Thr Ala Ser Glu Gly Phe Thr Val Asn Glu Ile Asn Lys  
 50 55 60  
 Lys Ser Ile His Ile Ser Cys Pro Lys Glu Asn Ala Ser Ser Lys Phe  
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 Leu Ala Pro Tyr Thr Thr Phe Ser Arg Ile His Thr Lys Ser Ile Thr  
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 Cys Leu Asp Ile Ser Ser Arg Gly Gly Leu Gly Val Ser Ser Ser Thr  
 100 105 110  
 Asp Gly Thr Met Lys Ile Trp Gln Ala Ser Asn Gly Glu Leu Arg Arg  
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 Gly Gly Ile Leu Asp Thr Ala Ile Val Asp Arg Gly Arg Asn Val Val  
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<211> 2205

<212> DNA

<213> Homo sapiens

<220>

09629469.072800

<221> CDS  
<222> (704).. (1099)

<400> 13713

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<210> 13714  
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<212> PRT  
<213> Homo sapiens

09629469.072800

<400> 13714

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          20           25           30
Val Leu Arg Ala Cys Met Ile Ser Ala Asn Gly Arg Gly Gly Phe Ser
          35           40           45
Cys Val Cys Ser Gly Ser Phe Phe Leu Ile Cys Val Leu Gln Gln Thr
          50           55           60
Gly Ser Gln Leu Thr Arg Asp Cys Met Phe Ile Pro Ile Ile Lys Asn
          65           70           75           80
Ile Trp Gln Ala Ser Gly Asn Ala Phe Thr Cys Gln Gly Asn Arg Met
          85           90           95
Gln Ser Pro Ala Gln Ala Pro Ala Leu Cys Ala Leu Glu Glu Gln Cys
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Gly Ile Cys Lys His Asn Asp Thr Arg Phe Trp Thr Arg Phe Cys His
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Leu Pro Ala Ala
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<210> 13715

<211> 1469

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (66).. (770)

<400> 13715

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008270-69469-072800

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<210> 13716

<211> 235

<212> PRT

<213> Homo sapiens

<400> 13716

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Leu Leu Glu Lys Ala Ser Asn Pro Lys Ile Leu Ser Leu Cys Pro Glu
      35           40           45
Ile Lys Trp His Phe Ile Gly His Leu Gln Lys Gln Asn Val Asn Lys
      50           55           60
Leu Met Ala Val Pro Asn Leu Phe Met Leu Glu Thr Val Asp Ser Val
      65           70           75           80
Lys Leu Ala Asp Lys Val Asn Ser Ser Trp Gln Arg Lys Gly Ser Pro
      85           90           95
Glu Arg Leu Lys Val Met Val Gln Ile Asn Thr Ser Gly Glu Glu Ser
      100          105          110
Lys His Gly Leu Pro Pro Ser Glu Thr Ile Ala Ile Val Glu His Ile
      115          120          125
Asn Ala Lys Cys Pro Asn Leu Glu Phe Val Gly Leu Met Thr Ile Gly
      130          135          140
Ser Phe Gly His Asp Leu Ser Gln Gly Pro Asn Pro Asp Phe Gln Leu
      145          150          155          160
Leu Leu Ser Leu Arg Glu Glu Leu Cys Lys Lys Leu Asn Ile Pro Ala
      165          170          175
Asp Gln Val Glu Leu Ser Met Gly Met Ser Ala Asp Phe Gln His Ala
      180          185          190
Val Glu Val Gly Ser Thr Asn Val Arg Ile Gly Ser Thr Ile Phe Gly
      195          200          205
Glu Arg Asp Tyr Ser Lys Lys Pro Thr Pro Asp Lys Cys Ala Ala Asp
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Val Lys Ala Pro Leu Glu Val Ala Gln Glu His
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09629469.072800

<210> 13717  
 <211> 2322  
 <212> DNA  
 <213> Homo sapiens

<400> 13717

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<210> 13718

09629469.072800

<211> 2029  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (60).. (1373)

<400> 13718

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<211> 438  
<212> PRT

09629469.072800



<213> Homo sapiens

<400> 13719

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		20				25						30			
Val	Ala	Ser	Glu	Asp	Gly	Ala	Leu	Arg	Ala	Pro	Glu	Ser	Gln	Ser	Val
		35				40					45				
Thr	Pro	Lys	Pro	Leu	Glu	Thr	Glu	Pro	Ser	Arg	Glu	Thr	Ala	Trp	Ser
	50					55					60				
Ile	Gly	Leu	Gln	Val	Thr	Met	Pro	Phe	Met	Phe	Ala	Gly	Leu	Gly	Leu
	65				70				75						80
Ser	Trp	Ala	Gly	Met	Leu	Leu	Asp	Tyr	Phe	Gln	His	Trp	Pro	Val	Phe
				85				90						95	
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Asn	Thr	Gly	Gln	Ile	Asp	Asp	Pro	Gln	Glu	Gln	His	Arg	Val	Ile	Ser
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	275						280					285			
Ser	Thr	Tyr	Leu	His	Met	Trp	Ser	Ala	Pro	Gly	Val	Leu	Pro	Leu	Gln
	290					295					300				
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	305				310					315					320
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			325						330					335	
His	Pro	Ile	Phe	Phe	Tyr	Ile	Ile	Tyr	Leu	Val	Glu	Gly	Gln	Ser	Val
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09629469.072800

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Gln Val Thr Ile Leu Leu Tyr Leu Ala Glu Val Met Val Arg Leu Thr		
370	375	380
Trp His Gln Ala Leu Asp Pro Asp Asn His Cys Ile Pro Tyr Pro Thr		
385	390	395
Gly Leu Gly Asp Leu Leu Gly Thr Gly Leu Leu Ala Leu Cys Phe Phe		
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Thr Asp Trp Leu Leu Lys Ser Lys Ala Glu Leu Gly Gly Ile Ser Glu		
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Leu Ala Ser Gly Pro Pro		
435		

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 <222> (379).. (1383)

<400> 13720

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<210> 13721

<211> 335

<212> PRT

<213> Homo sapiens

<400> 13721

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			20					25					30		
Leu	Leu	Val	Val	His	Phe	Trp	Ala	Pro	Trp	Ala	Pro	Gln	Cys	Ala	Gln
		35					40					45			
Met	Asn	Glu	Val	Met	Ala	Glu	Leu	Ala	Lys	Glu	Leu	Pro	Gln	Val	Ser
	50					55				60					
Phe	Val	Lys	Leu	Glu	Ala	Glu	Gly	Val	Pro	Glu	Val	Ser	Glu	Lys	Tyr
65					70				75					80	
Glu	Ile	Ser	Ser	Val	Pro	Thr	Phe	Leu	Phe	Phe	Lys	Asn	Ser	Gln	Lys
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Ile	Asp	Arg	Leu	Asp	Gly	Ala	His	Ala	Pro	Glu	Leu	Thr	Lys	Lys	Val
			100					105					110		
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		115					120					125			
Leu	Lys	Glu	Asp	Leu	Asn	Leu	Arg	Leu	Lys	Lys	Leu	Thr	His	Ala	Ala
	130					135					140				
Pro	Cys	Met	Leu	Phe	Met	Lys	Gly	Thr	Pro	Gln	Glu	Pro	Arg	Cys	Gly
145					150					155				160	
Phe	Ser	Lys	Gln	Met	Val	Glu	Ile	Leu	His	Lys	His	Asn	Ile	Gln	Phe
				165				170						175	
Ser	Ser	Phe	Asp	Ile	Phe	Ser	Asp	Glu	Glu	Val	Arg	Gln	Gly	Leu	Lys
			180					185					190		
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		195					200					205			
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	210					215					220				
Leu	Asp	Thr	Ile	Cys	Pro	Lys	Ala	Pro	Lys	Leu	Glu	Glu	Arg	Leu	Lys
225					230					235				240	
Val	Leu	Thr	Asn	Lys	Ala	Ser	Val	Met	Leu	Phe	Met	Lys	Gly	Asn	Lys
				245				250						255	
Gln	Glu	Ala	Lys	Cys	Gly	Phe	Ser	Lys	Gln	Ile	Leu	Glu	Ile	Leu	Asn
			260					265					270		
Ser	Thr	Gly	Val	Glu	Tyr	Glu	Thr	Phe	Asp	Ile	Leu	Glu	Asp	Glu	Glu
		275					280					285			
Val	Arg	Gln	Gly	Leu	Lys	Ala	Tyr	Ser	Asn	Trp	Pro	Thr	Tyr	Pro	Gln
	290					295					300				

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Leu Tyr Val Lys Gly Glu Leu Val Gly Gly Leu Asp Ile Val Lys Glu  
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<212> DNA  
<213> Homo sapiens

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<222> (94).. (711)

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gaatgtgtaa ccagtgtctc atgtatccca ctagcaagcc aaaagaggag ttccactggg 540  
cgtcctgact ggacctgcat tgtggtgggt ttacttcag gttatgtacg cttctacact 600  
gagaatgggtg tgctcttgct tgcacagctt ttgaatgagg acccagtact tcaacttaaa 660  
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 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<400> 13723

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		20						25					30		
Ala	Leu	Arg	Arg	Asp	Pro	Ser	Lys	Ser	Thr	Asp	Trp	Glu	Asp	Asp	Gly
		35					40					45			
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	50					55					60				
Asn	Thr	Cys	Lys	Thr	Gln	Lys	Thr	Ser	Trp	Leu	Gln	Asp	Cys	Val	Leu
65					70					75					80
Ser	Leu	Ser	Pro	Thr	Asn	Asp	Leu	Met	Val	Ile	Ala	Arg	Glu	Gln	Lys
				85					90					95	
Ala	Val	Phe	Leu	Val	Pro	Lys	Trp	Lys	Tyr	Ser	Asp	Lys	Gly	Lys	Glu
			100					105					110		
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145					150					155					160
Thr	Ser	Gly	Tyr	Val	Arg	Phe	Tyr	Thr	Glu	Asn	Gly	Val	Leu	Leu	Leu
				165					170					175	
Ala	Gln	Leu	Leu	Asn	Glu	Asp	Pro	Val	Leu	Gln	Leu	Lys	Cys	Arg	Thr
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 <212> DNA  
 <213> Homo sapiens

<400> 13724

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aacttaaatt	cagtcataac	aatacatgag	acaaacccaa	gtagagcac	agtctgcaaa	240
ataactggcc	tgtaatcttc	aaatgcatca	agatcatgaa	agacaaggaa	agagtgaaga	300
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (116).. (595)

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tccacagtct ataattgggtg atgttgtctg caacagccct ccatttttta aaggaagtat 180
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aactaagacc acgtccattc taaaactacc caccaaagca ccaggtttga taccttatat 360
tacaaagcca tccactcaac ttccaggacc ttactgccct attccttgta actgcaaagt 420
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cactcacagg gtcaaatatg aaatacaaaa ccacgaacca atcaacagaa tttttatcct 720
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<212> PRT  
<213> Homo sapiens

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Pro Thr Pro Pro Val Tyr Glu Glu His Glu Asp Pro Ser Gly Ser Leu  
35 40 45  
His Leu Ala Ala Thr Ser Ser Ile Asn Asp Ser Arg Met Ser Thr Lys  
50 55 60  
Thr Thr Ser Ile Leu Lys Leu Pro Thr Lys Ala Pro Gly Leu Ile Pro  
65 70 75 80  
Tyr Ile Thr Lys Pro Ser Thr Gln Leu Pro Gly Pro Tyr Cys Pro Ile  
85 90 95  
Pro Cys Asn Cys Lys Val Leu Ser Pro Ser Gly Leu Leu Ile His Cys  
100 105 110  
Gln Glu Arg Asn Ile Glu Ser Leu Ser Asp Leu Arg Pro Pro Pro Gln  
115 120 125  
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Lys Ser Ile Leu Trp Ser Lys Ala Ser Gly Arg Gly Arg Arg Glu Glu  
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<212> DNA  
<213> Homo sapiens

<400> 13727

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<210> 13728

<211> 1545

<212> DNA

<213> Homo sapiens

<400> 13728

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<212> DNA  
<213> Homo sapiens

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<211> 499

<212> PRT

<213> Homo sapiens

<400> 13730

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Ser	Ala	His	Ala	Asp	Ala	Lys	Gly	Ile	Met	Gln	Leu	Val	Gly	Gln	Ala	
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 Pro Ala Asn Gly Glu Thr Val Thr Leu Pro Thr Ser Pro Ser Ile Pro  
 340 345 350  
 Val Gly Ile Ser Leu Gly Leu Leu Lys Arg Glu Met Ala Gln Gly Leu  
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<212> PRT  
<213> Homo sapiens

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Gly Ile Arg Asp Leu Ala Val Gln Phe Ser Cys Ile Glu Ala Val Asn  
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<212> DNA  
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<211> 364

<212> PRT

<213> Homo sapiens

<400> 13737

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His	Ile	Ala	Leu	Phe	Leu	Glu	Phe	Asn	Met	Leu	Ala	Gln	Gly	Cys	Glu
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Asp	Ile	Ile	Ala	Glu	Ser	Ile	Ser	Leu	Asp	Thr	Leu	Ile	Ala	Ile	Leu
						205					210				215
Lys	Arg	Ser	Ser	His	Pro	Tyr	Gly	Ser	Lys	Trp	Val	His	Arg	Gln	Ala
						220									

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225		230		235		240									
Leu	His	Phe	Leu	Cys	Glu	Glu	Phe	Ser	Gln	Val	Met	Thr	Ser	Asp	Val
				245					250					255	
Phe	Tyr	Glu	Leu	Ser	Lys	Asp	His	Leu	Leu	Thr	Ala	Ile	Gln	Ser	Asp
			260					265					270		
Tyr	Leu	Gln	Ala	Ser	Glu	Gln	Asp	Ile	Leu	Lys	Tyr	Leu	Ile	Lys	Trp
		275					280					285			
Gly	Glu	His	Gln	Leu	Met	Lys	Arg	Ile	Ala	Asp	Arg	Glu	Pro	Asn	Leu
	290					295				300					
Leu	Ser	Gly	Thr	Ala	His	Ser	Val	Asn	Lys	Arg	Gly	Val	Lys	Arg	Arg
305					310				315					320	
Asp	Leu	Asp	Met	Glu	Glu	Leu	Arg	Glu	Ile	Leu	Ser	Ser	Leu	Leu	Pro
			325					330					335		
Phe	Val	Arg	Ile	Glu	His	Ile	Leu	Pro	Ile	Asn	Ser	Glu	Val	Leu	Ser
		340					345					350			
Asp	Ala	Val	Ser	Val	Phe	Leu	His	Val	Phe	Leu	Ser				
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<210> 13738  
 <211> 1876  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (506).. (832)

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 gatgaaaggc atttaaccct agagcatgta caaagctgag tgcgaagtct cagaaatagt 180  
 gtocataaagt gatgtattgg cctcagaggg aattcgtatg tacttataca caaattcacc 240  
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 ttcaatcaaa tggaaaagag ccatattttt ttcaaaaata gcaaaattat ctaatttccc 420  
 ttctacttct catgtccata ggataagcaa aagaaaaaaa atctgaaaca cctgagttgg 480  
 cactttaaaa atttttccca gaaacatgag atgggatggt cagaggtcat gcagttgggtg 540  
 tcatgggggg accctgcctg ttttcttctg tagctcatac cggtcacgcc ttgttggtgc 600  
 taatgacttc ccaggtgcct ggtaccaatt ctccattagt tgcgtgtgtc ctagaaatct 660  
 gtgtaggtca tggaaacctat tttctggaaa accacttaat acttatttta atttctgtaa 720  
 atgttgtctg tggaaaagaa catttccaca ttttgcttgc cattgttctg aatctgactg 780  
 gcagataaca cactttggca tctgtaatga aattacatta atcgtctgtc cttactctt 840  
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 attttattat caaaattatt ctttgttttt tggattatca taatggtctt cttataatg 1020  
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tctcttgotc ttttgt                                     1876

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<210> 13739  
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 <212> PRT  
 <213> Homo sapiens

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<400> 13739
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Leu Pro Val Phe Cys Ser Ser Tyr Arg Ser Arg Leu Val Gly Ala
 20          25          30
Asn Asp Phe Pro Gly Ala Trp Tyr Gln Phe Phe Ile Ser Cys Cys Cys
 35          40          45
Pro Arg Asn Leu Cys Arg Ser Trp Asn Leu Phe Ser Gly Lys Pro Leu
 50          55          60
Asn Thr Tyr Phe Asn Phe Cys Lys Cys Cys Leu Trp Lys Arg Thr Phe
 65          70          75          80
Pro His Phe Ala Cys His Cys Ser Glu Ser Asp Trp Gln Ile Thr His
 85          90          95
Phe Gly Ile Cys Asn Glu Ile Thr Leu Ile Val Cys Pro
100          105

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<210> 13740  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (83).. (610)

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tgagatcatc cgcaaagcca tcattgccac agaccttgct ttatactttg gaaacaggaa 240  
gcagttggaa gagatgtacc agaccggatc actaaacctt aataatcaat cacatagaga 300  
ccgtgtaatt ggtttgatga tgaactgcctg tgacctttgt tctgtgacaa aactgtggcc 360  
cgttacaaaa ttgacggcaa atgatatata tgcagaattc tgggctgagg gtgatgaaat 420  
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<210> 13741

<211> 176

<212> PRT

<213> Homo sapiens

<400> 13741

Met	Glu	Gln	His	His	Phe	Ser	Gln	Thr	Val	Ser	Ile	Leu	Gln	Leu	Glu
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			20						25				30		
Leu	Glu	Ile	Ile	Arg	Lys	Ala	Ile	Ile	Ala	Thr	Asp	Leu	Ala	Leu	Tyr
			35						40				45		
Phe	Gly	Asn	Arg	Lys	Gln	Leu	Glu	Glu	Met	Tyr	Gln	Thr	Gly	Ser	Leu
			50						55				60		
Asn	Leu	Asn	Asn	Gln	Ser	His	Arg	Asp	Arg	Val	Ile	Gly	Leu	Met	Met
			65				70				75			80	
Thr	Ala	Cys	Asp	Leu	Cys	Ser	Val	Thr	Lys	Leu	Trp	Pro	Val	Thr	Lys
			85						90					95	
Leu	Thr	Ala	Asn	Asp	Ile	Tyr	Ala	Glu	Phe	Trp	Ala	Glu	Gly	Asp	Glu
			100						105					110	
Met	Lys	Lys	Leu	Gly	Ile	Gln	Pro	Ile	Pro	Met	Met	Asp	Arg	Asp	Lys

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115	120	125
Lys Asp Glu Val Pro Gln Gly Gln Leu Gly Phe Tyr Asn Ala Val Ala		
130	135	140
Ile Pro Cys Tyr Thr Thr Leu Thr Gln Ile Leu Pro Pro Thr Glu Pro		
145	150	155
Leu Leu Lys Ala Cys Arg Asp Asn Leu Ser Gln Trp Glu Lys Val Ile		
165	170	175

<210> 13742  
 <211> 1567  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (207).. (731)

<400> 13742

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gcaggggtcca	tctacagaac	caaggaatgg	gtcatcccc	cagatacata	catcacctcc	240
atcccacgct	gcctgcaggt	acctactggg	tggatccaaa	ccttggctgc	tcctctgaca	300
ccatcgaggt	ctcctgcaac	ttcactcatg	gtggacagac	gtgtctcaag	cccatcacgg	360
cctccaaggt	cgagtttgcc	atcagccggg	tccagatgaa	tttctgcac	ctgctaagct	420
ccgaggtgac	ccagcacatc	accatccact	gccttaacat	gaccgtgtgg	caggagggca	480
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aagctggggg	tcagttccgg	cccaggtgt	ccatggatgg	ctgcaaggtc	caagatggcc	600
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<210> 13743  
 <211> 175  
 <212> PRT  
 <213> Homo sapiens

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 Ala Gly Thr Tyr Trp Val Asp Pro Asn Leu Gly Cys Ser Ser Asp Thr  
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 Ile Glu Val Ser Cys Asn Phe Thr His Gly Gly Gln Thr Cys Leu Lys  
 35 40 45  
 Pro Ile Thr Ala Ser Lys Val Glu Phe Ala Ile Ser Arg Val Gln Met  
 50 55 60  
 Asn Phe Leu His Leu Leu Ser Ser Glu Val Thr Gln His Ile Thr Ile  
 65 70 75 80  
 His Cys Leu Asn Met Thr Val Trp Gln Glu Gly Thr Gly Gln Thr Pro  
 85 90 95  
 Ala Lys Gln Ala Val Arg Phe Arg Ala Trp Asn Gly Gln Ile Phe Glu  
 100 105 110  
 Ala Gly Gly Gln Phe Arg Pro Glu Val Ser Met Asp Gly Cys Lys Val  
 115 120 125  
 Gln Asp Gly Arg Trp His Gln Thr Leu Phe Thr Phe Arg Thr Gln Asp  
 130 135 140  
 Pro Gln Gln Leu Pro Ile Ile Ser Val Asp Asn Leu Pro Pro Ala Ser  
 145 150 155 160  
 Ser Gly Lys Gln Tyr Arg Leu Glu Val Gly Pro Ala Cys Phe Leu  
 165 170 175

<210> 13744  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (195).. (1190)

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<210> 13745  
<211> 332  
<212> PRT  
<213> Homo sapiens

<400> 13745  
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20 25 30  
Leu Ser Gly Pro Ser Asp Ser Ser Ser Trp Pro Lys Ser Gly Trp Pro  
35 40 45  
Ser Ala Phe Gln Lys Pro Lys Gly Arg Leu Pro Tyr Glu Leu Gln Asp  
50 55 60  
Tyr Val Glu Asp Thr Ser Glu Tyr Leu Ala Pro Gln Glu Gly Asn Phe  
65 70 75 80  
Val Tyr Lys Leu Phe Ser Leu Gln Asp Leu Leu Leu Leu Val Arg Cys  
85 90 95  
Ser Val Gln Arg Ile Glu Thr Arg Pro Arg Ser Lys Lys Arg Lys Lys  
100 105 110  
Ile Arg Arg Gln Phe Pro Val Tyr Val Leu Pro Lys Val Glu Tyr Gln  
115 120 125  
Ala Cys Tyr Gly Val Glu Ala Leu Thr Glu Ser Glu Leu Cys Arg Leu  
130 135 140  
Trp Thr Glu Ser Leu Leu His Ser Asn Ser Ser Phe Tyr Val Gly His

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145		150		155		160									
Ile	Asp	Ala	Phe	Thr	Ser	Lys	Leu	Phe	Leu	Leu	Glu	Glu	Ile	Thr	Ser
				165					170					175	
Glu	Glu	Leu	Lys	Glu	Lys	Leu	Ser	Ala	Leu	Lys	Ile	Ser	Asn	Leu	Phe
			180					185					190		
Asn	Ile	Leu	Gln	His	Ile	Leu	Lys	Lys	Leu	Ser	Ser	Leu	Gln	Glu	Gly
		195				200						205			
Ser	Tyr	Leu	Leu	Ser	His	Ala	Ala	Glu	Asp	Ser	Ser	Leu	Leu	Ile	Tyr
	210					215					220				
Lys	Ala	Ser	Asp	Gly	Lys	Val	Thr	Arg	Thr	Ala	Tyr	Asn	Leu	Tyr	Lys
225					230					235				240	
Thr	His	Cys	Gly	Leu	Pro	Gly	Val	Pro	Ser	Ser	Leu	Ser	Val	Pro	Arg
			245					250					255		
Val	Pro	Leu	Asp	Pro	Ser	Leu	Leu	Leu	Pro	Tyr	His	Ile	His	His	Gly
			260					265					270		
Arg	Ile	Pro	Cys	Thr	Phe	Pro	Pro	Lys	Ser	Leu	Asp	Thr	Thr	Thr	Gln
	275					280						285			
Gln	Lys	Ile	Gly	Gly	Thr	Arg	Met	Pro	Thr	Arg	Ser	His	Arg	Asn	Pro
	290					295					300				
Val	Ser	Met	Glu	Thr	Lys	Ser	Ser	Cys	Leu	Pro	Ala	Gln	Gln	Val	Glu
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<210> 13746  
 <211> 2659  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (643).. (966)

<400> 13746

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<212> PRT

<213> Homo sapiens

<400> 13747

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Ala Pro Pro His Pro Gln Pro Phe Val His Val Phe Pro Leu Ser Arg
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009270" 69462960



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<210> 13750  
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 <213> Homo sapiens

<400> 13752

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 <212> DNA  
 <213> Homo sapiens

<400> 13753

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<212> DNA

<213> Homo sapiens

<400> 13762

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<211> 1950

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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Ala His Phe Cys Pro Met Glu Leu Arg Gly Pro Glu Pro Leu Gly Ser
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<211> 400

<212> PRT

<213> Homo sapiens

<400> 13790

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			20					25					30		
Asn	Ser	Val	Met	Asn	Pro	Lys	Pro	Ser	Ser	Trp	Arg	Lys	Lys	Ile	Leu
		35					40					45			
Pro	Glu	Ser	Phe	Phe	Lys	Glu	Pro	Asp	Ser	Gly	Ser	His	Ser	Arg	Gln
		50				55				60					
Ser	Ser	Thr	Asp	Ser	Ser	Gly	Gly	His	Pro	Gly	Pro	Arg	Leu	Ala	Gly
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Gly	Ala	Gln	His	Val	Arg	Ser	His	Ser	Ser	Pro	Ala	Ser	Leu	Gln	Leu
			85						90					95	
Gly	Thr	Gly	Ala	Gly	Ala	Ala	Gly	Ser	Pro	Ala	Gln	Gln	His	Ala	His
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Leu	Arg	Gln	Gln	Ser	Tyr	Asp	Val	Thr	Asp	Glu	Leu	Pro	Leu	Pro	Pro
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Gly	Trp	Glu	Met	Thr	Phe	Thr	Ala	Thr	Gly	Gln	Arg	Tyr	Phe	Leu	Asn
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His	Ile	Glu	Lys	Ile	Thr	Thr	Trp	Gln	Asp	Pro	Arg	Lys	Ala	Met	Asn
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			165					170						175	
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		180						185					190		
His	Gln	His	Gln	Gln	Gln	Met	Ala	Pro	Ser	Thr	Leu	Ser	Gln	Gln	Asn
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210		215		220
Leu Thr Thr Gln Gln Gln Gln Gln Gln Lys	Leu Arg Leu Gln Arg Ile			
225		230		240
Gln Met Glu Arg Glu Arg Ile Arg Met Arg	Gln Glu Glu Leu Met Arg			
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Gln Glu Ala Ala Leu Cys Arg Gln Leu Pro Met	Glu Ala Glu Thr Leu			
		260		270
Ala Pro Val Gln Ala Ala Val Asn Pro Pro Thr	Met Thr Pro Asp Met			
		275		285
Arg Ser Ile Thr Asn Asn Ser Ser Asp Pro Phe	Leu Asn Gly Gly Pro			
		290		300
Tyr His Ser Arg Glu Gln Ser Thr Asp Ser Gly	Leu Gly Leu Gly Cys			
305		310		320
Tyr Ser Val Pro Thr Thr Pro Glu Asp Phe Leu	Ser Asn Val Asp Glu			
		325		335
Met Asp Thr Gly Glu Asn Ala Gly Gln Thr Pro	Met Asn Ile Asn Pro			
		340		350
Gln Gln Thr Arg Phe Pro Asp Phe Leu Asp Cys	Leu Pro Gly Thr Asn			
		355		365
Val Asp Leu Gly Thr Leu Glu Ser Glu Asp Leu	Ile Pro Leu Phe Asn			
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Asp Val Glu Ser Ala Leu Asn Lys Ser Glu Pro	Phe Leu Thr Trp Leu			
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 <212> DNA  
 <213> Homo sapiens

<220>  
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<211> 435

<212> PRT

<213> Homo sapiens

<400> 13792

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		20						25					30		
Leu	Asp	Glu	Gly	Arg	Ser	Val	Asn	Glu	His	Thr	Glu	Glu	Gly	Glu	Ser
	35						40					45			
Leu	Leu	Cys	Leu	Ala	Cys	Ser	Ala	Gly	Tyr	Tyr	Glu	Leu	Ala	Gln	Val
	50					55					60				
Leu	Leu	Ala	Met	His	Ala	Asn	Val	Glu	Asp	Arg	Gly	Asn	Lys	Gly	Asp
	65				70					75				80	
Ile	Thr	Pro	Leu	Met	Ala	Ala	Ser	Ser	Gly	Gly	Tyr	Leu	Asp	Ile	Val
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Lys	Leu	Leu	Leu	Leu	His	Asp	Ala	Asp	Val	Asn	Ser	Gln	Ser	Ala	Thr
			100					105					110		
Gly	Asn	Thr	Ala	Leu	Thr	Tyr	Ala	Cys	Ala	Gly	Gly	Phe	Val	Asp	Ile
	115						120					125			
Val	Lys	Val	Leu	Leu	Asn	Glu	Gly	Ala	Asn	Ile	Glu	Asp	His	Asn	Glu
	130					135					140				
Asn	Gly	His	Thr	Pro	Leu	Met	Glu	Ala	Ala	Ser	Ala	Gly	His	Val	Glu
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Val	Ala	Arg	Val	Leu	Leu	Asp	His	Gly	Ala	Gly	Ile	Asn	Thr	His	Ser
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Asn	Glu	Phe	Lys	Glu	Ser	Ala	Leu	Thr	Leu	Ala	Cys	Tyr	Lys	Gly	His
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 Lys Thr Asp Glu Met His Thr Ala Leu Met Glu Ala Cys Met Asp Gly  
 210 215 220  
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 225 230 235 240  
 Met Pro Ala Asp Ser Phe Glu Ser Pro Leu Thr Leu Ala Ala Cys Gly  
 245 250 255  
 Gly His Val Glu Leu Ala Ala Leu Leu Ile Glu Arg Gly Ala Asn Leu  
 260 265 270  
 Glu Glu Val Asn Asp Glu Gly Tyr Thr Pro Leu Met Glu Ala Ala Arg  
 275 280 285  
 Glu Gly His Glu Glu Met Val Ala Leu Leu Leu Ala Gln Gly Ala Asn  
 290 295 300  
 Ile Asn Ala Gln Thr Glu Glu Thr Gln Glu Thr Ala Leu Thr Leu Ala  
 305 310 315 320  
 Cys Cys Gly Gly Phe Ser Glu Val Ala Asp Phe Leu Ile Lys Ala Gly  
 325 330 335  
 Ala Asp Ile Glu Leu Gly Cys Ser Thr Pro Leu Met Glu Ala Ser Gln  
 340 345 350  
 Glu Gly His Leu Glu Leu Val Lys Tyr Leu Leu Ala Ser Gly Ala Asn  
 355 360 365  
 Val His Ala Thr Thr Ala Thr Gly Asp Thr Ala Leu Thr Tyr Ala Cys  
 370 375 380  
 Glu Asn Gly His Thr Asp Val Ala Asp Val Leu Leu Gln Ala Gly Ala  
 385 390 395 400  
 Asp Leu Asp Lys Gln Glu Asp Met Lys Thr Ile Leu Glu Gly Ile Asp  
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 420 425 430  
 Arg Lys Glu  
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 <212> DNA  
 <213> Homo sapiens

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 <222> (746).. (1249)

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<211> 168

<212> PRT

<213> Homo sapiens

<400> 13794

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 35 40 45  
 Asn Gln Thr Lys Lys Tyr His Met Val Thr Leu Val Ser Asp Thr Ala  
 50 55 60  
 Met Thr Pro Ile Ala Ser Val Asp Thr Ile Ala Val Cys Leu Phe Ala  
 65 70 75 80  
 Gly Ala Trp Gly Gly Ala Met Val Pro Met His Leu Leu Gly Arg Leu  
 85 90 95  
 Glu Lys Pro Leu Leu Leu Leu Cys Cys Ala Ser Phe Leu Leu Gly Leu  
 100 105 110  
 Ala Leu Leu Gly Ile Lys Thr Asp Ile Thr Pro Val Ala Tyr Phe Phe  
 115 120 125  
 Leu Thr Leu Gly Gly Phe Phe Leu Phe Ala Tyr Leu Leu Val Arg Phe  
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<210> 13795  
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<212> DNA  
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<400> 13795  
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 <212> PRT  
 <213> Homo sapiens

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Phe Ser Gln Gly Ser Gly Ser Glu Glu Gly Glu Ala Ala Gly Thr Glu
             50             55             60
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             65             70             75             80
Asp Glu Glu Gly Val Val Lys Phe Gln Pro Ser Leu Trp Pro Trp Asp
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Ser Val Arg Asn Asn Leu Arg Ser Ala Leu Thr Glu Met Cys Val Leu
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Tyr Asp Val Leu Ser Ile Val Arg Asp Lys Lys Phe Met Thr Leu Asp
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145

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<213> Homo sapiens

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<222> (393).. (710)

<400> 13819

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<222> (1254).. (1565)

<400> 13824

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<400> 13828

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<213> Homo sapiens

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-7517/13211-

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 <213> Homo sapiens

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Ser	Val	Glu	Thr	Gly	Phe	Glu	Asp	Lys	Ile	Pro	Lys	Arg	Arg	Phe	Ser
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His	Cys	Pro	Glu	Lys	Ile	Ser	Glu	Asn	Lys	Phe	Leu	Lys	Tyr	Leu	Ser
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Gln	Phe	Gly	Pro	Ile	Asn	Asn	His	Phe	Phe	Tyr	Glu	Ser	Phe	Gly	Leu
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Phe	Glu	Leu	Leu	Cys	Tyr	Ala	Glu	Ser	Ile	Asp	Asp	Gln	Leu	Asn	Thr
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 <213> Homo sapiens

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 <212> DNA

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<213> Homo sapiens

<220>

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<222> (76).. (540)

<400> 13841

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<400> 13842

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Arg	Gly	Pro	Arg	Thr	Asp	Arg	Leu	Trp	Ala	Phe	His	Val	Val	Arg	
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<400> 13843

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<212> PRT

<213> Homo sapiens

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          35           40           45
Ser Pro Ala Arg Asn Tyr Leu Tyr Gly Leu Ala Ala Ile Gly Val Pro
          50           55           60
Ala Leu Val Leu Phe Ile Ile Gly Ile Ile Leu Asn Asn His Thr Trp
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Asn Leu Val Ala Glu Cys Gln His Arg Arg Thr Lys Asn Cys Ser Ala
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          100          105          110
Ala Pro Val Thr Trp Ser Val Ile Ser Leu Leu Arg Gly Glu Ala Tyr
          115          120          125
Val Cys Ala Leu Ser Glu Phe Val Asp Pro Ser Ser Leu Thr Ala Arg
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Glu Glu His Phe Pro Ser Ala His Ala Thr Glu Ile Leu Ala Arg Phe
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Gln	Pro	Arg	Pro	Gln	Trp	Asn	Ala	Ile	Thr	Gly	Val	Tyr	Leu	Tyr	Arg				
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Glu	Asn	Gln	Gly	Leu	Pro	Leu	Tyr	Ser	Arg	Leu	His	Lys	Trp	Ala	Gln				
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 <212> PRT  
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210 215 220  
Val Asn Gly Glu Asp Lys Gly Asp Ser Gly Val Asp Thr Gln Asn Ser  
225 230 235 240  
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245 250 255  
Asp Lys Thr Lys Ser Phe Phe Asp Asn Ile Ser Cys Asp Asp Asn Arg  
260 265 270  
Glu Arg Arg Pro Thr Trp Ala Glu Glu Arg Arg Leu Asn Ala Glu Thr  
275 280 285  
Phe Gly Ile Pro Leu Arg Pro Asn Arg Gly Arg Gly Gly Tyr Arg Gly  
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<213> Homo sapiens

<400> 13862

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Thr	Glu	Val	Leu	Gln	Thr	Gln	Lys	Glu	Val	Glu	Val	Thr	Arg	Thr	His	165	170	175	
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Gln	Gly	Glu	Gly	Gln	Gly	His	Leu	Ser	Gln	Lys	Lys	Thr	Val	Thr	Ile	195	200	205	
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-7549/13211-

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 35 40 45

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Pro	Ser	Pro	Pro	Gly	Phe	Lys	Gln	Phe	Ser	Cys	Leu	Ser	Leu	Ser	Arg
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<212> DNA  
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<212> PRT

<213> Homo sapiens

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 Arg Arg Met Phe Glu Gly Glu Met Ala Ser Leu Thr Ala Ile Leu Lys  
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 Asp Asn Lys Lys Leu Gly Glu Met Arg Leu Lys Glu Ala Gly Thr Val  
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<400> 13882

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Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu Gln Val Leu Asn Ala
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<210> 13884

<211> 246

<212> PRT

<213> Homo sapiens

<400> 13884

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             20             25             30
Met Gln Ala Pro Lys Leu Leu Trp Leu Lys Glu Asn Leu Arg Glu Ile

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-7570/13211-

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Trp	Lys	Ala	Thr	Gly	Val	Thr	Ala	Arg	Ser	Leu	Cys	Ser	Leu	Val	Cys				
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Met	Ile	Gly	Leu	Glu	Asp	Phe	Val	Ala	Asp	Asn	Tyr	Ser	Lys	Ile	Gly				
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Asn	Gln	Val	Leu	Pro	Pro	Gly	Ala	Ser	Leu	Gly	Asn	Gly	Leu	Thr	Pro				
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Ser	Leu	Ile	Asp	Ala	His	Ala	Gly	Gly	Leu	Gly	Val	Ile	Gly	Ala	Asp				
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Asp	Pro	Ile	Phe	Val	Pro	Gly	Val	Trp	Gly	Pro	Tyr	Phe	Ser	Ala	Met				
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Leu	Ile	Asp	His	Met	Val	Gln	Gly	His	Ala	Ala	Phe	Pro	Glu	Leu	Gln				
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 <212> PRT  
 <213> Homo sapiens

<400> 13886

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			20					25					30		
Thr	Ile	Ala	Asn	Trp	Glu	Arg	Glu	Phe	Arg	Thr	Trp	Thr	Asp	Ile	Asn
			35				40					45			
Val	Val	Val	Tyr	His	Gly	Ser	Leu	Ile	Ser	Arg	Gln	Met	Ile	Gln	Gln
			50			55					60				
Tyr	Glu	Met	Tyr	Phe	Arg	Asp	Ser	Gln	Gly	Arg	Ile	Ile	Arg	Gly	Ala
					70					75				80	
Tyr	Arg	Phe	Gln	Ala	Ile	Ile	Thr	Thr	Phe	Glu	Met	Ile	Leu	Gly	Gly
				85				90					95		
Cys	Gly	Glu	Leu	Asn	Ala	Ile	Glu	Trp	Arg	Cys	Val	Ile	Ile	Asp	Glu
			100				105					110			
Ala	His	Arg	Leu	Lys	Asn	Lys	Asn	Cys	Lys	Leu	Leu	Glu	Gly	Leu	Lys
			115			120						125			
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	165		170	175
Thr Glu Glu Gln Val Gln Lys Leu Gln Ala Ile Leu Lys Pro Met Met				
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Leu Arg Arg Leu Lys Glu Asp Val Glu Lys Lys Leu Ala Pro Lys Glu				
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Glu Thr Ile Ile Glu Val Glu Leu Thr Asn Ile Gln Lys Lys Tyr Tyr				
210		215		220
Arg Ala Ile Leu Glu Lys Asn Phe Ser Phe Leu Ser Lys Gly Ala Gly				
225		230		235
Gln Thr Asn Val Pro Asn Leu Val Asn Thr Met Met Glu Leu Arg Lys				240
	245		250	255
Cys Cys Asn His Pro Tyr Leu Ile Lys Gly Ala Glu Glu Lys Ile Leu				
	260		265	270
Gly Glu Phe Arg Asp Thr Tyr Asn Pro Ala Ala Ser Asp Phe His Leu				
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Gln Ala Met Ile Gln Ser Ala Gly Lys Leu Val Leu Ile Asp Lys Leu				
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Leu Pro Lys Met Lys Ala Gly Gly His Lys Val Leu Ile Phe Ser Gln				
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<212> DNA  
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 <211> 418  
 <212> PRT  
 <213> Homo sapiens

<400> 13888

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			20					25					30		
Thr	Ser	Phe	Gly	Ile	Ala	Leu	Pro	Ala	Trp	Ile	Val	Asp	Gln	Lys	Asn
			35					40					45		
Ser	Ile	Leu	Val	Leu	Leu	Val	Tyr	Gly	Leu	Ala	Phe	Met	Val	Ile	Leu
			50				55				60				
Pro	Val	Val	Val	Gly	Ser	Trp	Trp	Tyr	Arg	Ser	Ile	Arg	Tyr	Ser	Gly
						70				75				80	
Asp	Gln	Ile	Leu	Ile	Arg	Thr	Thr	Gln	Ile	Tyr	Thr	Tyr	Phe	Val	Tyr
						85				90				95	
Lys	Thr	Arg	Asn	Met	Asp	Met	Lys	Arg	Leu	Ile	Met	Val	Leu	Ala	Gly
			100					105				110			
Ala	Ser	Glu	Phe	Asp	Pro	Gln	Tyr	Asn	Lys	Asp	Ala	Thr	Ser	Arg	Pro
			115				120					125			

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Ala Arg Val Leu Leu Leu Ser His Leu Ala Arg Met Lys Ile Pro Glu  
165 170 175  
Thr Leu Glu Glu Asp Gln Gln Phe Met Leu Lys Lys Cys Pro Ala Leu  
180 185 190  
Leu Gln Glu Met Val Asn Val Ile Cys Gln Leu Ile Val Met Ala Arg  
195 200 205  
Asn Arg Glu Glu Arg Glu Phe Arg Ala Pro Thr Leu Ala Ser Leu Glu  
210 215 220  
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225 230 235 240  
Lys Ser Pro Leu Leu Gln Leu Pro His Ile Glu Glu Asp Asn Leu Arg  
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Arg Val Ser Asn His Lys Lys Tyr Lys Ile Lys Thr Ile Gln Asp Leu  
260 265 270  
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275 280 285  
Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly Ser Phe Pro Tyr  
290 295 300  
Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp Glu Asp Ser Asn  
305 310 315 320  
Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val Lys Leu Thr Arg  
325 330 335  
Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser Ile Cys Ala Ala  
340 345 350  
Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr Asn Lys Asn Arg  
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Val Asp Tyr His Leu Ile Met Asp Met Ile Pro Ala Ile Ser Arg Ile				830
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		885		890
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<213> Homo sapiens

<400> 13894

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Ala Lys Glu Gln Ser Leu Pro Ser Val Met Ala Arg Thr Cys Phe Val
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<212> DNA

<213> Homo sapiens

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-7585/13211-

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 <213> Homo sapiens

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Leu Gly Gly Val Ser Ala Ala Pro Glu Ala Lys Thr Lys Ala Glu Ala
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-7587/13211-

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-7596/13211-

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<211> 233

<212> PRT

<213> Homo sapiens

<400> 13910

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Gly Leu Trp Met Asn Cys Val Arg Gln Ala Asn Ile Arg Met Gln Cys  
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Lys Ile Tyr Asp Ser Leu Leu Ala Leu Ser Pro Asp Leu Gln Ala Ala  
65 70 75 80  
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Lys Val Lys Ala His Ile Leu Leu Thr Ala Gly Ile Ile Phe Ile Ile  
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Thr Gly Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile  
130 135 140  
Ile Arg Asp Phe Tyr Asn Pro Ile Val Asn Val Ala Gln Lys Arg Glu  
145 150 155 160  
Leu Gly Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile  
165 170 175  
Val Gly Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser  
180 185 190  
Ser Ser Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser  
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210 215 220  
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<210> 13911

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<213> Homo sapiens

<400> 13911

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<212> DNA  
<213> Homo sapiens

<220>



<221> CDS

<222> (1207).. (1869)

<400> 13912

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<210> 13913

<211> 221

<212> PRT

<213> Homo sapiens

<400> 13913

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35 40 45  
Gly Gln Lys Glu Asn Val Leu Lys Leu Thr Gln His Ser Arg Val Glu  
50 55 60  
Arg Ala Ala Val Thr Ala Ser Ser Ser Ala Leu Pro Thr Ala Ser Gln  
65 70 75 80  
Leu Arg Pro Lys Gly Leu Arg Val Gly Val Phe Leu His Arg Gly Arg  
85 90 95  
Val Thr Ala Cys Thr His His Thr Pro Lys Ala Leu His Pro Ala Thr  
100 105 110  
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115 120 125  
Phe Ile Ala Pro Leu Ser Gln Ile Leu Lys Ser Leu Ser Leu Lys Ile  
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145 150 155 160  
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165 170 175  
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<210> 13914  
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<212> DNA  
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 <212> PRT  
 <213> Homo sapiens

<400> 13915

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		20						25					30		
Ile	Leu	Gly	Leu	Ala	Tyr	Ala	Thr	Leu	Ala	Lys	Pro	Ser	Ser	Ser	Leu
		35					40					45			
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	50					55					60				
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Cys	Arg	Glu	Tyr	Asn	Ala	Asp	Lys	Ala	Ile	Val	Asp	Ser	Gly	Thr	Thr
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Pro	Lys	Ile	Ser	Ile	Tyr	Leu	Arg	Asp	Glu	Asn	Ser	Ser	Arg	Ser	Phe
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 Ala Leu Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr Val Ile Phe  
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 Asp Arg Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro Cys Ala Glu  
 260 265 270  
 Ile Ala Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe Ser Thr Glu  
 275 280 285  
 Asp Val Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser Glu Pro Ile  
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 Leu Trp Ile Val Ser Tyr Ala Leu Met Ser Val Cys Gly Ala Ile Leu  
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<220>  
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 <222> (414).. (725)

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 <212> PRT  
 <213> Homo sapiens

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<400> 13917
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Ser Pro Thr His Gly Gly Gly Arg Pro Met Pro Met Pro Val Arg Ser
          35             40             45
Thr Ser Ala Gly Ser Thr Pro Thr His Cys Pro Gln Asp Ser Leu Ser
          50             55             60
Gly Val Gly Gly Asp Val Gln Glu Ala Phe Ala Gln Ala Glu Glu Gly
          65             70             75             80
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<400> 13918

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<213> Homo sapiens

<400> 13919

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Lys	Glu	Thr	Pro	Ser	Glu	Gln	Glu	Ser	Lys	Val	Phe	Val	Leu	Thr	Glu
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Gly	Asp	Ile	Phe	Leu	Val	Glu	Gly	Thr	Asn	Asn	Asn	Ser	Gln	Ser	Ser
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His	Ser	Leu	Ser	Pro	Pro	Gly	Glu	Asn	Thr	Val	Met	Ala	Asp	Ser	Phe
	290					295					300				
Gln	Ile	Lys	Val	Asn	Leu	Met	Thr	Val	Glu	Ala	Leu	Glu	Glu	Gly	Asp
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Tyr	Phe	Glu	Ala	Ile	Pro	Leu	Lys	Ala	Ser	Lys	Phe	Asn	Ser	Asp	Leu
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370 375 380  
Ser Pro Glu Pro Gln Val Lys Met Asp Lys His Glu Pro His Gln Asp  
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Pro Leu Ser Lys Val Ser Val Ile Pro His Asp Leu Phe Tyr Phe Pro  
485 490 495  
His Tyr Glu Val Pro Leu Ala Ala Val Leu Glu Ala Tyr Val Glu Asp  
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Tyr Met Pro Asp Leu Asp Ser Arg Glu Glu Glu Ala Asp Gly Ser Gln  
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Asp Gln Val Leu Tyr Leu Ser Arg Gly Gly Val Gly Thr Thr Pro Ala  
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Ser Glu Pro Ala Pro Leu Ala Pro His Glu Asp His Gln Gln Arg Glu  
580 585 590  
Thr Lys Glu Asn Asp Pro Met Asp Ser His Gln Ser Gln Glu Ser Pro  
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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (105).. (1541)

008240"69462960



<400> 13920

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<211> 479

<212> PRT

<213> Homo sapiens

<400> 13921

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Asp Thr Asn Gly Ala Val Val Lys Thr Asn Ala Asn Ala Glu Lys Thr
                35             40             45
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009240" 69462960

-7607/13211-

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Leu Arg Leu Lys Pro Gln Leu Leu Gln Gly Val Tyr Ala Met Gly Phe  
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Thr Ala Ala Phe Val Leu Ala Met Leu Ser Gln Val Glu Pro Ala Asn  
145 150 155 160  
Lys Tyr Pro Gln Cys Leu Cys Leu Ser Pro Thr Tyr Glu Leu Ala Leu  
165 170 175  
Gln Thr Gly Lys Val Ile Glu Gln Met Gly Lys Phe Tyr Pro Glu Leu  
180 185 190  
Lys Leu Ala Tyr Ala Val Arg Gly Asn Lys Leu Glu Arg Gly Gln Lys  
195 200 205  
Ile Ser Glu Gln Ile Val Ile Gly Thr Pro Gly Thr Val Leu Asp Trp  
210 215 220  
Cys Ser Lys Leu Lys Phe Ile Asp Pro Lys Lys Ile Lys Val Phe Val  
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Val Pro Asp Pro Asn Val Ile Lys Leu Lys Arg Glu Glu Glu Thr Leu  
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325 330 335  
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Leu Ser Lys Glu Gly His Gln Val Ala Leu Leu Ser Gly Glu Met Met  
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Val Glu Gln Arg Ala Ala Val Ile Glu Arg Phe Arg Glu Gly Lys Glu  
370 375 380  
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385 390 395 400  
Gln Val Ser Val Val Ile Asn Phe Asp Leu Pro Val Asp Lys Asp Gly  
405 410 415  
Asn Pro Asp Asn Glu Thr Tyr Leu His Arg Ile Gly Arg Thr Gly Arg  
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-7608/13211-

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-7609/13211-

<212> PRT

<213> Homo sapiens

<400> 13923

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85 90 95  
Leu Glu Lys Leu Gly Pro Cys Leu Pro Leu Asp Leu Ser Arg Gly Ser  
100 105 110  
Glu Val Thr Ala Pro Val Ala Ser Asp Ser Ser Tyr Arg Asn Glu Cys  
115 120 125  
Pro Arg Ala Glu Lys Glu Asp Thr Gln Met Leu Pro Asn Pro Ser Ser  
130 135 140  
Lys Ala Ile Ala Asp Gly Arg Gly Ala Pro Ala Ala Ala Gly Ile Ser  
145 150 155 160  
Lys Thr Glu Lys Lys Val Lys Leu Glu Asp Lys Ser Ser Thr Ala Phe  
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<211> 1839

<212> DNA

<213> Homo sapiens

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<400> 13925

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<400> 13926

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<400> 13927

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<400> 13928

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195 200 205  
Arg Arg Asp Lys Leu Tyr Val Cys Glu Asp Cys Gly Tyr Thr Gly Pro  
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2268

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<212> PRT

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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gttacccctgg cccaaatgat gaagtaatat aatgttgcac atttccttcc acttaacatt 180
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000220"69162960

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 <222> (28).. (1392)

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 <213> Homo sapiens

<400> 13943

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Ser	Leu	Ala	Ser	Phe	Asp	Ala	Ile	Phe	Val	Asp	Glu	Ala	Gln	Asp	Cys
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	65				70					75					80
Phe	Val	Gly	Asp	Pro	His	Gln	Gln	Ile	Tyr	Thr	Phe	Arg	Gly	Ala	Val
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			180					185					190		
Leu	Asp	Arg	Ile	Ile	Asp	Ile	Trp	Ile	Leu	Leu	Gln	Pro	Glu	Glu	Glu
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-7627/13211-

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			325						330					335	
Ala	Lys	Lys	Arg	Leu	Ile	Met	Thr	Lys	Ser	Leu	Glu	Asn	Ile	Leu	Thr
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Leu	Ala	Gly	Glu	Tyr	Phe	Leu	Gln	Ala	Glu	Leu	Thr	Ser	Asn	Val	Leu
		355					360					365			
Lys	Thr	Gly	Val	Val	Arg	Cys	Cys	Val	Gly	Gln	Cys	Asn	Asn	Ala	Ile
	370					375					380				
Pro	Val	Asp	Thr	Val	Leu	Thr	Met	Lys	Lys	Leu	Pro	Ile	Thr	Tyr	Ser
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Asn	Arg	Lys	Glu	Asn	Lys	Gly	Gly	Tyr	Leu	Cys	His	Ser	Cys	Ala	Glu
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Gln	Arg	Ile	Gly	Pro	Leu	Ala	Phe	Leu	Thr	Ala	Ser	Pro	Glu	Gln	Val
			420					425					430		
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 <213> Homo sapiens

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008270" 69462960

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 <213> Homo sapiens

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Ile	Asp	Lys	Ile	Arg	Lys	Arg	Glu	Gln	Arg	Leu	Asn	Arg	His	Leu	Ala
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		180						185					190		
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Ala	Glu	Leu	Lys	Pro	Asp	Ser	Glu	Asp	Leu	Ser	Ser	Gln	Ser	Ser	Ala
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09629469 " 072800



-7630/13211-

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 420 425 430  
 Gln Leu Met Ala Ala Glu Lys Lys Ser Lys Ala Glu Leu Glu Asp Leu  
 435 440 445  
 Arg Gln Arg Leu Lys Asp Leu Glu Asp Lys Glu Lys Lys Glu Asn Lys  
 450 455 460  
 Lys Met Ala Asp Glu Asp Ala Leu Arg Lys Ile Arg Ala Val Glu Glu  
 465 470 475 480  
 Gln Ile Glu Tyr Leu Gln Lys Lys Leu Ala Met Ala Lys Gln Glu Glu  
 485 490 495  
 Glu Ala Leu Leu Ser Glu Met Asp Val Thr Gly Gln Ala Phe Glu Asp  
 500 505 510  
 Met Gln Glu Gln Asn Ile Arg Leu Met Gln Gln Leu Arg Glu Lys Asp  
 515 520 525  
 Asp Ala Asn Phe Lys Leu Met Ser Glu Arg Ile Lys Ser Asn Gln Ile  
 530 535 540  
 His Lys Leu Leu Lys Glu Glu Lys Glu Glu Leu Ala Asp Gln Val Leu  
 545 550 555 560  
 Thr Leu Lys Thr Gln Val Asp Ala Gln Leu Gln Val Val Arg Lys Leu  
 565 570 575  
 Glu Glu Lys Glu His Leu Leu Gln Ser Asn Ile Gly Thr Gly Glu Lys  
 580 585 590  
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<211> 1766

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<212> DNA  
<213> Homo sapiens

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<210> 13955  
 <211> 143

<212> PRT  
<213> Homo sapiens

<400> 13955

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Cys	Leu	Leu	Pro	Met	Ala	Trp	Pro	Glu	Cys	Cys	Ser	Trp	Ala	Pro	Gly
			20					25					30		
Asp	Glu	Leu	Leu	Ala	Gln	Ala	Gly	Glu	His	Pro	Leu	His	Pro	Pro	Cys
		35					40					45			
Arg	Glu	Glu	Leu	Gly	Trp	Ala	Phe	Ser	Ile	Ala	Ile	Leu	Arg	Asn	Gly
	50					55					60				
Val	Pro	Ile	Gly	Gly	Met	Arg	Pro	Trp	Asp	Glu	Val	Leu	His	Leu	Ala
	65				70					75					80
Gly	His	Asp	Ser	Ile	Leu	Ile	Phe	Asp	Cys	His	Glu	Glu	Val	Leu	Glu
			85						90					95	
His	His	Asp	Ala	Pro	Gly	Glu	Ala	Pro	Gly	Trp	Ala	Ala	Gly	Ser	Lys
		100						105					110		
Arg	His	Gly	Gln	Gln	Pro	Ser	Gln	Gln	His	Cys	Phe	Thr	Leu	Gly	Leu
	115						120					125			
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (200).. (1552)

<400> 13956

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caaccagatt	gggttcgagt	tctggaaaca	gctgtgcgcc	gagcatggta	tcagccccga	300
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008220 69462960

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<210> 13957  
 <211> 451  
 <212> PRT  
 <213> Homo sapiens

<400> 13957

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Pro Glu Gly Ile Val Glu Glu Phe Ala Thr Glu Gly Thr Asp Arg Lys
        35          40          45
Asp Val Phe Phe Tyr Gln Ala Asp Asp Glu His Tyr Ile Pro Arg Ala
       50          55          60
Val Leu Leu Asp Leu Glu Pro Arg Val Ile His Ser Ile Leu Asn Ser
      65          70          75          80
Pro Tyr Ala Lys Leu Tyr Asn Pro Glu Asn Ile Tyr Leu Ser Glu His
          85          90          95
Gly Gly Gly Ala Gly Asn Asn Trp Ala Ser Gly Phe Ser Gln Gly Glu
        100         105         110
Lys Ile His Glu Asp Ile Phe Asp Ile Ile Asp Arg Glu Ala Asp Gly
       115         120         125
Ser Asp Ser Leu Glu Gly Phe Val Leu Cys His Ser Ile Ala Gly Gly
      130         135         140
Thr Gly Ser Gly Leu Gly Ser Tyr Leu Leu Glu Arg Leu Asn Asp Arg
     145         150         155         160
Tyr Pro Lys Lys Leu Val Gln Thr Tyr Ser Val Phe Pro Tyr Gln Asp
          165         170         175
Glu Met Ser Asp Val Val Val Gln Pro Tyr Asn Ser Leu Leu Thr Leu
        180         185         190

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09629469.072800

-7641/13211-

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 210 215 220  
 Phe Ser Gln Ile Asn Gln Leu Val Ser Thr Ile Met Ser Ala Ser Thr  
 225 230 235 240  
 Thr Thr Leu Arg Tyr Pro Gly Tyr Met Asn Asn Asp Leu Ile Gly Leu  
 245 250 255  
 Ile Ala Ser Leu Ile Pro Thr Pro Arg Leu His Phe Leu Met Thr Gly  
 260 265 270  
 Tyr Thr Pro Leu Thr Thr Asp Gln Ser Val Ala Ser Val Arg Lys Thr  
 275 280 285  
 Thr Val Leu Asp Val Met Arg Arg Leu Leu Gln Pro Lys Asn Val Met  
 290 295 300  
 Val Ser Thr Gly Arg Asp Arg Gln Thr Asn His Cys Tyr Ile Ala Ile  
 305 310 315 320  
 Leu Asn Ile Ile Gln Gly Glu Val Asp Pro Thr Gln Val His Lys Ser  
 325 330 335  
 Leu Gln Arg Ile Arg Glu Arg Lys Leu Ala Asn Phe Ile Pro Trp Gly  
 340 345 350  
 Pro Ala Ser Ile Gln Val Ala Leu Ser Arg Lys Ser Pro Tyr Leu Pro  
 355 360 365  
 Ser Ala His Arg Val Ser Gly Leu Met Met Ala Asn His Thr Ser Ile  
 370 375 380  
 Ser Ser Leu Phe Glu Ser Ser Cys Gln Gln Phe Asp Lys Leu Arg Lys  
 385 390 395 400  
 Arg Asp Ala Phe Leu Glu Gln Phe Arg Lys Glu Asp Met Phe Lys Asp  
 405 410 415  
 Asn Phe Asp Glu Met Asp Arg Ser Arg Glu Val Val Gln Glu Leu Ile  
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 Gln Glu Gln  
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<210> 13958

<211> 2040

<212> DNA

<213> Homo sapiens

<400> 13958

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003270.69462960

008220 69462960

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gagctaaaaat gtgtttagc ctatagaact tagcacttct ctcaaagaga gaaggggaga 540
cccaatgaga gaggcagaca tggggtgagg ccaatgaaca ctcagaaatt aaaaagaata 600
gttctacctt cttgacttat gtgtagcaac taaatcacaa ttagagaaag atacatgtgt 660
gagtgtgtgt gtgtatactt gtgtgtgtga aggtgtgcat gtgtacaagg aaaatggaaa 720
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<210> 13959  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (368).. (730)

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<210> 13960  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 13960

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		20						25					30		
Leu	Leu	Gly	Cys	Arg	Ser	Cys	Gly	Ser	Ser	Gly	Pro	Arg	Cys	Ser	Leu
		35					40					45			
Val	Pro	Ala	Leu	Glu	Gly	Lys	Val	Val	Asn	Leu	Ser	Ile	His	Met	Val
		50				55					60				
Leu	Ile	Leu	Gln	Val	Cys	Arg	Val	His	Lys	Met	Trp	Lys	His	Gly	Ile
		65			70					75				80	
Leu	Gln	Arg	Asp	Phe	Phe	Phe	Phe	Phe	Phe	Glu	Thr	Asp	Ser	His	Cys
			85						90					95	
Ile	Ala	Gln	Ala	Gly	Val	Gln	Trp	Cys	Asp	Leu	Gly	Pro	Pro	Gln	Pro
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Pro	Pro	Tyr	Ser	Ile	Ile	Ile	Pro	Leu							
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<210> 13961  
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<212> DNA  
<213> Homo sapiens

<400> 13961

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<210> 13962  
<211> 2067  
<212> DNA

09629469.072300

<213> Homo sapiens

<220>

<221> CDS

<222> (200).. (1456)

<400> 13962

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<213> Homo sapiens

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<212> PRT

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<220>

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<222> (205).. (1887)

<400> 13976

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<210> 13977

<211> 561

<212> PRT

<213> Homo sapiens

<400> 13977

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-7661/13211-

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<210> 13978

<211> 1869

003220.69462960



<212> DNA

<213> Homo sapiens

<400> 13978

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<213> Homo sapiens

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<221> CDS

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<400> 13979

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 <212> PRT  
 <213> Homo sapiens

<400> 13980

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Lys	Pro	Leu	Val	Gly	Arg	Glu	Asp	Ser	Lys	Pro	His	Ser	Leu	Arg	Gly
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			100				105					110			
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<400> 14005

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<211> 156

<212> PRT

<213> Homo sapiens

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Ala Pro Lys His Pro Phe Ser His Leu Pro Thr Thr Phe Leu Cys Ser
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<400> 14009

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-7699/13211-

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<211> 1835

<212> DNA

<213> Homo sapiens

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 Tyr Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro Val Ser Ala Ser  
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 <212> PRT  
 <213> Homo sapiens

<400> 14022

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Cys	Gly	Tyr	Gly	Cys	Trp	Asp	His	Tyr	Tyr	Glu	Ser	Asp	Thr	Leu	Leu
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His	Ser	Phe	Gln	Val	Leu	Ala	Ala	Leu	Val	Glu	Ser	Pro	Val	Thr	Gln
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Asp	Ile	Ile	Cys	Asp	Val	Gly	Met	Pro	Val	Met	His	Arg	Asn	Val	Arg
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Tyr	Asn	Cys	Arg	Val	Ile	Phe	Leu	Asn	Arg	Lys	Ile	Leu	Leu	Ile	Arg
			100					105					110		
Pro	Lys	Met	Ala	Leu	Ala	Asn	Glu	Gly	Asn	Tyr	Arg	Glu	Leu	Arg	Trp
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-7704/13211-

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Phe Ala Leu Ser Cys His Glu Asp Leu Leu Ala Pro Ile Ser Glu Pro  
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325 330 335  
Ala Cys Trp Leu Trp Asp Phe Leu Arg Arg Ser Gln Gln Ala Gly Phe  
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Pro Leu Ala Asp Gly Gln Val Ser Gln Thr Asp Glu Glu Asp Met Gly  
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<222> (282).. (1160)

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Lys	Gly	Arg	Leu	Ser	Leu	Gln	Asn	Thr	Ala	Glu	Ile	Gln	His	Cys	Leu
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Val	Asn	Ala	Gly	Asp	Val	Gly	Cys	Gly	Val	Phe	Glu	Cys	Phe	Glu	Asn
	50					55					60				
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				85					90					95	
Ala	Leu	Lys	Cys	Lys	Ala	His	Ala	Leu	Arg	His	Arg	Phe	Gly	Cys	Ile
			100					105					110		
Ser	Arg	Lys	Cys	Pro	Ala	Ile	Arg	Glu	Met	Val	Ser	Gln	Leu	Gln	Arg
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Ser Thr Glu Gln Pro Gly Ser Ile Leu Gly Pro Glu Cys Ala Ser Cys		
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Lys Arg Val Phe Ser Pro Tyr Phe Lys Lys Glu Pro Val Tyr Gln Leu		
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Pro Cys Gly His Leu Leu Cys Arg Pro Cys Leu Gly Glu Lys Gln Arg		
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<212> PRT  
<213> Homo sapiens

<400> 14036

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Tyr	Ser	Asp	Lys	Ser	Met	Ile	Gln	Val	Pro	Tyr	Arg	Leu	His	Ala	Val
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Gln	Lys	Ala	Leu	Gln	Glu	Lys	Leu	Leu	Ala	Ser	Gln	Lys	Leu	Arg	Glu
		180						185					190		
Ser	Glu	Thr	Ser	Val	Thr	Thr	Ala	Gln	Ala	Ala	Gly	Asp	Pro	Glu	Tyr
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Thr	Ile	Gln	Ile	Ile	Thr	Lys	Ala	Ser	His	Glu	His	Glu	Asp	Lys	Ser
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Val	Lys	Leu	Ala	Gln	Glu	Asp	Thr	Pro	Pro	Glu	Thr	Asp	Tyr	Arg	Leu
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His	His	Val	Val	Val	Tyr	Phe	Ile	Gln	Asn	Gln	Ala	Pro	Lys	Lys	Ile
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Ile	Glu	Lys	Thr	Leu	Leu	Glu	Gln	Phe	Gly	Asp	Arg	Asn	Leu	Ser	Phe
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Asp	Glu	Arg	Cys	His	Asn	Ile	Met	Lys	Val	Ala	Gln	Ala	Lys	Leu	Glu
305					310					315					320
Met	Ile	Lys	Pro	Glu	Glu	Val	Asn	Leu	Glu	Glu	Tyr	Glu	Glu	Trp	His
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Gln	Asp	Tyr	Arg	Lys	Phe	Arg	Glu	Thr	Thr	Met	Tyr	Leu	Ile	Ile	Gly

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370 375 380  
Arg Gly His Asp Glu Glu Leu Ile Ser His Tyr Arg Arg Glu Cys Leu  
385 390 395 400  
Leu Lys Leu Asn Glu Gln Ala Ala Glu Leu Phe Glu Ser Gly Glu Asp  
405 410 415  
Arg Glu Val Asn Asn Gly Leu Ile Ile Met Asn Glu Phe Ile Val Pro  
420 425 430  
Phe Leu Pro Leu Leu Leu Val Asp Glu Met Glu Glu Lys Asp Ile Leu  
435 440 445  
Ala Val Glu Asp Met Arg Asn Arg Trp Cys Ser Tyr Leu Gly Gln Glu  
450 455 460  
Met Glu Pro His Leu Gln Glu Lys Leu Thr Asp Phe Leu Pro Lys Leu  
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Leu Asp Cys Ser Met Glu Ile Lys Ser Phe His Glu Pro Pro Lys Leu  
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<212> PRT

<213> Homo sapiens

<400> 14038

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35 40 45  
Gln Glu Asp Asp Arg Gly Ile Thr Tyr Arg Ile Pro Ala Leu Leu Tyr  
50 55 60  
Ile Pro Pro Thr His Thr Phe Leu Ala Phe Ala Glu Lys Arg Ser Thr  
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85 90 95  
Ile Gly Gln Leu Val Gln Trp Gly Pro Leu Lys Pro Leu Met Glu Ala  
100 105 110  
Thr Leu Pro Gly His Arg Thr Met Asn Pro Cys Pro Val Trp Glu Gln  
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Lys Ser Gly Cys Val Phe Leu Phe Phe Ile Cys Val Arg Gly His Val  
130 135 140  
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145 150 155 160  
Phe Ile Tyr Ser Gln Asp Ala Gly Cys Ser Trp Ser Glu Val Arg Asp  
165 170 175  
Leu Thr Glu Glu Val Ile Gly Ser Glu Leu Lys His Trp Ala Thr Phe  
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Ala Val Gly Pro Gly His Gly Ile Gln Leu Gln Ser Gly Arg Leu Val  
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				245					250					255	
Val	Glu	Cys	Glu	Val	Ala	Glu	Val	Thr	Gly	Arg	Ala	Gly	His	Pro	Val
			260					265					270		
Leu	Tyr	Cys	Ser	Ala	Arg	Thr	Pro	Asn	Arg	Cys	Arg	Ala	Glu	Ala	Leu
		275					280					285			
Ser	Thr	Asp	His	Gly	Glu	Gly	Phe	Gln	Arg	Leu	Ala	Leu	Ser	Arg	Gln
		290				295					300				
Leu	Cys	Glu	Pro	Pro	His	Gly	Cys	Gln	Gly	Ser	Val	Val	Ser	Phe	Arg
305					310					315					320
Pro	Leu	Glu	Ile	Pro	His	Arg	Cys	Gln	Asp	Ser	Ser	Ser	Lys	Asp	Ala
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Pro	Thr	Ile	Gln	Gln	Ser	Ser	Pro	Gly	Ser	Ser	Leu	Arg	Leu	Glu	Glu
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Glu	Ala	Gly	Thr	Pro	Ser	Glu	Ser	Trp	Leu	Leu	Tyr	Ser	His	Pro	Thr
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Ser	Arg	Lys	Gln	Arg	Val	Asp	Leu	Gly	Ile	Tyr	Leu	Asn	Gln	Thr	Pro
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Leu	Glu	Ala	Ala	Cys	Trp	Ser	Arg	Pro	Trp	Ile	Leu	His	Cys	Gly	Pro
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Cys	Gly	Tyr	Ser	Asp	Leu	Ala	Ala	Leu	Glu	Glu	Gly	Leu	Phe	Gly	
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Cys	Leu	Phe	Glu	Cys	Gly	Thr	Lys	Gln	Glu	Cys	Glu	Gln	Ile	Ala	Phe
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Arg	Leu	Phe	Thr	His	Arg	Glu	Ile	Leu	Ser	His	Leu	Gln	Gly	Asp	Cys
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 <212> PRT  
 <213> Homo sapiens

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 Asp Leu Tyr His Trp Ser Val Glu Ser Tyr Ser Asp Phe Trp Ala Glu  
 50 55 60  
 Phe Trp Lys Phe Ser Gly Ile Val Phe Ser Arg Val Tyr Asp Glu Val  
 65 70 75 80  
 Val Asp Thr Ser Lys Gly Ile Ala Asp Val Pro Glu Trp Phe Lys Gly  
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 130 135 140  
 Met Arg Lys Met Gly Ala Lys Lys Gly Asp Arg Val Val Gly Tyr Leu  
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 165 170 175  
 Gly Ala Ile Trp Ser Ser Thr Ser Pro Asp Phe Gly Val Asn Gly Val  
 180 185 190  
 Leu Asp Arg Phe Ser Gln Ile Gln Pro Lys Leu Ile Phe Ser Val Glu  
 195 200 205  
 Ala Val Val Tyr Asn Gly Lys Glu His Asn His Met Glu Lys Leu Gln  
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Met Trp Asn Trp Met Val Ser Leu Leu Ala Thr Gly Ala Ala Met Val				
		340		345
Leu Tyr Asp Gly Ser Pro Leu Val Pro Thr Pro Asn Val Leu Trp Asp				
		355		360
Leu Val Asp Arg Ile Gly Ile Thr Val Leu Val Thr Gly Ala Lys Trp				
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Leu Gln Met Leu His Thr Ile Leu Ser Thr Gly Ser Pro Leu Lys Ala				
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		420		425
Gly Ser Ile Ser Gly Gly Thr Asp Ile Ile Ser Cys Phe Met Gly His				
		435		440
Asn Phe Ser Leu Pro Val Tyr Lys Gly Glu Ile Gln Ala Arg Asn Leu				
		450		455
Gly Met Ala Val Glu Ala Trp Asn Glu Glu Gly Lys Ala Val Trp Gly				
465		470		475
Glu Ser Gly Glu Leu Val Cys Thr Lys Pro Ile Pro Cys Gln Pro Thr				
		485		490
His Phe Trp Asn Asp Glu Asn Gly Asn Lys Tyr Arg Lys Ala Tyr Phe				
		500		505
Ser Lys Phe Pro Gly Ile Trp Ala His Gly Asp Tyr Cys Arg Ile Asn				
		515		520
Pro Lys Thr Gly Gly Ile Val Met Leu Gly Arg Ser Asp Gly Thr Leu				
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<212> PRT

<213> Homo sapiens

<400> 14043

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Val	Lys	Asp	Tyr	Leu	Arg	Asn	Met	Lys	Glu	Tyr	Glu	Val	Asp	Asn	Asp
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His Leu Gln	Pro Gln Pro Tyr Lys	Arg Glu Gly	Lys Trp His Lys Tyr		
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<400> 14047

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<211> 293

<212> PRT

<213> Homo sapiens

<400> 14048

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-7736/13211-

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<211> 1784

<212> DNA

<213> Homo sapiens

<400> 14049

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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (4).. (1524)

<400> 14050

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<212> PRT  
<213> Homo sapiens

<400> 14051

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-7738/13211-

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<211> 1491

<212> DNA

<213> Homo sapiens

<400> 14052

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 <213> Homo sapiens

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 <222> (308).. (1102)

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<400> 14054

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<210> 14055

<211> 265

<212> PRT

<213> Homo sapiens

<400> 14055

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 <213> Homo sapiens

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<212> PRT  
<213> Homo sapiens

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Gly Glu Leu Tyr His Glu His Cys Phe Val Cys Ala Gln Cys Phe Arg  
35 40 45  
Pro Phe Pro Glu Gly Leu Phe Tyr Glu Phe Glu Gly Arg Lys Tyr Cys  
50 55 60  
Glu His Asp Phe Gln Met Leu Phe Ala Pro Cys Cys Gly Ser Cys Gly  
65 70 75 80  
Glu Phe Ile Ile Gly Arg Val Ile Lys Ala Met Asn Asn Asn Trp His  
85 90 95

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Pro Gly Cys Phe Arg Cys Glu Leu Cys Asp Val Glu Leu Ala Asp Leu  
100 105 110  
Gly Phe Val Lys Asn Ala Gly Arg His Leu Cys Arg Pro Cys His Asn  
115 120 125  
Arg Glu Lys Ala Lys Gly Leu Gly Lys Tyr Ile Cys Gln Arg Cys His  
130 135 140  
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Pro Asp His Phe Asn Cys Thr His Cys Gly Lys Glu Leu Thr Ala Glu  
165 170 175  
Ala Arg Glu Leu Lys Gly Glu Leu Tyr Cys Leu Pro Cys His Asp Lys  
180 185 190  
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195 200 205  
Val Val Asn Ala Leu Gly Lys Gln Trp His Val Glu His Phe Val Cys  
210 215 220  
Ala Lys Cys Glu Lys Pro Phe Leu Gly His Arg His Tyr Glu Lys Lys  
225 230 235 240  
Gly Leu Ala Tyr Cys Glu Thr His Tyr Asn Gln Leu Phe Gly Asp Val  
245 250 255  
Cys Tyr Asn Cys Ser His Val Ile Glu Gly Asp Val Val Ser Ala Leu  
260 265 270  
Asn Lys Ala Trp Cys Val Ser Cys Phe Ser Cys Ser Thr Cys Asn Ser  
275 280 285  
Lys Leu Thr Leu Lys Asp Lys Phe Val Glu Phe Asp Met Lys Pro Val  
290 295 300  
Cys Lys Arg Cys Tyr Glu Lys Phe Pro Leu Glu Leu Lys Lys Arg Leu  
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<212> DNA  
<213> Homo sapiens

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<212> PRT  
<213> Homo sapiens

<400> 14059  
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Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg  
35 40 45  
Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn  
50 55 60  
Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met  
65 70 75 80  
Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln  
85 90 95  
Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln  
100 105 110  
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val

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Glu	Cys	Asn	Pro	Trp	Cys	Pro	Glu	Arg	Cys	Ser	Gly	Pro	Met	Cys	Thr
145				150				155				160			
His	Tyr	Thr	Gln	Ile	Val	Trp	Ala	Thr	Thr	Asn	Lys	Ile	Gly	Cys	Ala
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210				215				220							
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225				230				235				240			
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Ile	Pro	Glu	Glu	Asn	His	Val	Trp	Leu	Gln	Pro	Arg	Val	Met	Arg	Pro
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Thr	Lys	Pro	Lys	Lys	Thr	Ser	Ala	Val	Asn	Tyr	Met	Thr	Gln	Val	Val
275				280				285							
Arg	Cys	Asp	Thr	Lys	Met	Lys	Asp	Arg	Cys	Lys	Gly	Ser	Thr	Cys	Asn
290				295				300							
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305				310				315				320			
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370															

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 <212> DNA  
 <213> Homo sapiens

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 <222> (146).. (658)

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<400> 14061

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Asp	Ser	Gln	Gly	Gln	Glu	Ala	Tyr	Glu	Pro	Glu	Arg	Thr	Trp	Gly	Cys
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Pro	Gly	Thr	Gly	Gly	Asp	Gly	Glu	Lys	Leu	Trp	Ala	Pro	Ser	Pro	Pro
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 <212> DNA  
 <213> Homo sapiens

<220>  
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<222> (18)..(2147)

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<211> 710

<212> PRT

<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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008220" 69462960

<210> 14076  
<211> 1520  
<212> DNA  
<213> Homo sapiens

<400> 14076

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<210> 14077  
<211> 1468  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS

<222> (195).. (500)

<400> 14077

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agacgttgtg ggcctgggtc tgctgccac tccccagtgg gtcaggactc cggcagggtc 180
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<210> 14078  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

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<400> 14078
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Ala Gly Gln Asn Gln Lys Trp Gly Pro Ser Gly Leu Pro Ile Trp Gly
          35             40             45
Ser Trp Arg Arg Ser Leu Ala Cys Pro Pro Trp Gly Ala Gly Gly Gln
          50             55             60
Thr Gly Cys Phe Met Glu Ser Gly Gly Val Leu Arg Gln Leu Tyr Leu
          65             70             75             80
Leu Asn Ala Lys Lys Pro Ser Trp Phe Asn Met Ile Val Ala Ala Ala
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<210> 14079  
 <211> 1986

00629469 072800

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (109).. (438)

<400> 14079

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1986

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<210> 14080  
<211> 110  
<212> PRT  
<213> Homo sapiens

008240" 69462960



<400> 14080

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			20					25					30		
Glu	Lys	Phe	Ser	Asn	Asp	Pro	Val	Leu	Lys	Phe	Phe	Lys	Ala	Tyr	Gly
		35					40					45			
Val	Leu	Lys	Glu	Gly	Asn	Val	Leu	His	Asp	Ala	Ala	Glu	Leu	Leu	Arg
	50					55				60					
Gly	Pro	Gly	Gly	Gly	Glu	Pro	Asp	His	Cys	Asp	Phe	Arg	Glu	Leu	Pro
65					70				75					80	
Ala	Ser	Pro	Arg	Pro	Glu	Asp	Ala	Ala	Val	Leu	Ser	Ser	Ala	Gly	Leu
			85						90					95	
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<210> 14081

<211> 1939

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (189).. (1550)

<400> 14081

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<210> 14082

<211> 454

<212> PRT

<213> Homo sapiens

<400> 14082

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			20					25					30		
Ile	Ser	Leu	Ser	Gly	Ala	Val	Gln	Leu	Arg	His	Leu	Ser	Asn	Asn	Leu
		35					40					45			
Glu	Thr	Leu	Leu	Lys	Arg	Asp	Phe	Leu	Lys	Leu	Leu	Pro	Leu	Glu	Leu
	50					55					60				
Ser	Phe	Tyr	Leu	Leu	Lys	Trp	Leu	Asp	Pro	Gln	Thr	Leu	Leu	Thr	Cys
65					70				75						80
Cys	Leu	Val	Ser	Lys	Gln	Trp	Asn	Lys	Val	Ile	Ser	Ala	Cys	Thr	Glu
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Val	Trp	Gln	Thr	Ala	Cys	Lys	Asn	Leu	Gly	Trp	Gln	Ile	Asp	Asp	Ser
			100					105					110		
Val	Gln	Asp	Ala	Leu	His	Trp	Lys	Lys	Val	Tyr	Leu	Lys	Ala	Ile	Leu
		115					120				125				
Arg	Met	Lys	Gln	Leu	Glu	Asp	His	Glu	Ala	Phe	Glu	Thr	Ser	Ser	Leu
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Ile	Gly	His	Ser	Ala	Arg	Val	Tyr	Ala	Leu	Tyr	Tyr	Lys	Asp	Gly	Leu
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Leu	Cys	Thr	Gly	Ser	Asp	Asp	Leu	Ser	Ala	Lys	Leu	Trp	Asp	Val	Ser
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Thr	Gly	Gln	Cys	Val	Tyr	Gly	Ile	Gln	Thr	His	Thr	Cys	Ala	Ala	Val
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Lys	Phe	Asp	Glu	Gln	Lys	Leu	Val	Thr	Gly	Ser	Phe	Asp	Asn	Thr	Val
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09629469.072800

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His Thr Gly Ala Val Phe Ser Val Asp Tyr Asn Asp Glu Leu Asp Ile		
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Ala Gly Thr Cys Leu Asn Thr Leu Thr Gly His Thr Glu Trp Val Thr		255
	260	265
Lys Val Val Leu Gln Lys Cys Lys Val Lys Ser Leu Leu His Ser Pro		270
	275	280
Gly Asp Tyr Ile Leu Leu Ser Ala Asp Lys Tyr Glu Ile Lys Ile Trp		285
	290	295
Pro Ile Gly Arg Glu Ile Asn Cys Lys Cys Leu Lys Thr Leu Ser Val		300
305	310	315
Ser Glu Asp Arg Ser Ile Cys Leu Gln Pro Arg Leu His Phe Asp Gly		320
	325	330
Lys Tyr Ile Val Cys Ser Ser Ala Leu Gly Leu Tyr Gln Trp Asp Phe		335
	340	345
Ala Ser Tyr Asp Ile Leu Arg Val Ile Lys Thr Pro Glu Ile Ala Asn		350
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Leu Ala Leu Leu Gly Phe Gly Asp Ile Phe Ala Leu Leu Phe Asp Asn		365
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Arg Tyr Leu Tyr Ile Met Asp Leu Arg Thr Glu Ser Leu Ile Ser Arg		380
385	390	395
Trp Pro Leu Pro Gly Tyr Arg Lys Ser Lys Arg Gly Ser Ser Phe Leu		400
	405	410
Ala Gly Glu Ala Ser Trp Leu Asn Gly Leu Asp Gly His Asn Asp Thr		415
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Gly Leu Val Phe Ala Thr Ser Met Pro Asp His Ser Ile His Leu Val		430
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<210> 14083

<211> 2021

<212> DNA

<213> Homo sapiens

<400> 14083

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000270" 69462960

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 <212> DNA  
 <213> Homo sapiens

<400> 14084						
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	65				70					75				80	
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 225 230 235 240  
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<213> Homo sapiens

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 Ile Ile His His Val Cys Asp Glu His Lys Glu Phe Lys Asp Val Lys  
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 Ser Pro Glu Asn Thr Leu Leu Gln Pro Arg Glu Glu Glu Gly Val Lys  
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 Tyr Glu Arg Thr Phe Val Ala Ser Glu Phe Leu Asp Trp Leu Val Gln  
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 Glu Gly Glu Ala Thr Thr Arg Lys Glu Ala Glu Gln Leu Cys His Arg  
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 Leu Met Glu His Gly Ile Ile Gln His Val Ser Ser Lys His Pro Phe  
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 Val Asp Ser Asn Leu Leu Tyr Gln Phe Arg Met Asn Phe Arg Arg Arg  
 210 215 220  
 Arg Arg Leu Met Glu Leu Leu Asn Glu Lys Ser Pro Ser Ser Gln Glu  
 225 230 235 240  
 Thr His Asp Ser Pro Phe Cys Leu Arg Lys Gln Ser His Asp Asn Arg  
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 Lys Ser Thr Ser Phe Met Ser Val Ser Pro Ser Lys Glu Ile Lys Ile  
 260 265 270

008240" 69462960

-7777/13211-

Val Ser Ala Val Arg Arg Ser Ser Met Ser Ser Cys Gly Ser Ser Gly  
275 280 285  
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Ala Val Gly Trp Gly Phe Val Val Arg Gly Ser Lys Pro Cys His Ile  
340 345 350  
Gln Ala Val Asp Pro Ser Gly Pro Ala Ala Ala Ala Gly Met Lys Val  
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Cys Gln Phe Val Val Ser Val Asn Gly Leu Asn Val Leu His Val Asp  
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<212> DNA  
<213> Homo sapiens

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<222> (399).. (1391)

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<210> 14093  
 <211> 331  
 <212> PRT  
 <213> Homo sapiens

<400> 14093

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			20					25					30		
Met	Trp	Tyr	Leu	Ser	Leu	Pro	His	Tyr	Asn	Val	Ile	Glu	Arg	Val	Asn
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Trp	Met	Tyr	Phe	Tyr	Glu	Tyr	Glu	Pro	Ile	Tyr	Arg	Gln	Asp	Phe	His
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Val	Ile	Leu	Val	Thr	Ser	His	Pro	Ser	Asp	Val	Lys	Ala	Arg	Gln	Ala
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Ile	Arg	Val	Thr	Trp	Gly	Glu	Lys	Lys	Ser	Trp	Trp	Gly	Tyr	Glu	Val
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Leu	Thr	Phe	Phe	Leu	Leu	Gly	Gln	Glu	Ala	Glu	Lys	Glu	Asp	Lys	Met
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Arg	Gln	Asp	Phe	Leu	Asp	Thr	Tyr	Asn	Asn	Leu	Thr	Leu	Lys	Thr	Ile
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008220" 69463960

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Tyr	Leu	Leu	Asn	Leu	Asn	His	Ser	Glu	Lys	Phe	Phe	Thr	Gly	Tyr	Pro				
		195					200					205							
Leu	Ile	Asp	Asn	Tyr	Ser	Tyr	Arg	Gly	Phe	Tyr	Gln	Lys	Thr	His	Ile				
	210					215					220								
Ser	Tyr	Gln	Glu	Tyr	Pro	Phe	Lys	Val	Ser	Pro	Pro	Tyr	Cys	Ser	Gly				
225					230					235					240				
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			245					250						255					
Met	Gly	His	Val	Lys	Pro	Ile	Lys	Phe	Glu	Asp	Val	Tyr	Val	Gly	Ile				
		260						265					270						
Cys	Leu	Asn	Leu	Leu	Lys	Val	Asn	Ile	His	Ile	Pro	Glu	Asp	Thr	Asn				
	275						280					285							
Leu	Phe	Leu	Leu	Tyr	Arg	Ile	His	Leu	Asp	Val	Cys	Gln	Leu	Arg	Arg				
	290				295						300								
Val	Ile	Ala	Ala	His	Gly	Phe	Ser	Ser	Lys	Glu	Ile	Ile	Thr	Phe	Trp				
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (80).. (1936)

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 aagtgcaccc atgccccaga ttctgtgtgc ttcagtcact cctacagcat cactatcagg 540  
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 <212> PRT  
 <213> Homo sapiens

<400> 14095

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			20					25					30		
Ser	Leu	Pro	Asn	Thr	Val	Ala	Thr	Asn	Asn	Thr	Lys	Met	Glu	Asp	Thr
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Leu	Val	Asn	Asn	Val	Pro	Leu	Pro	Asn	Thr	Leu	Pro	Leu	Pro	Lys	Arg
			50			55				60					
Glu	Thr	Ile	Gln	Gln	Ser	Ser	Ser	Leu	Thr	Ser	Val	Pro	Pro	Thr	Thr
			65			70				75				80	
Phe	Ser	Leu	Thr	Phe	Lys	Met	Glu	Ser	Ala	Arg	Lys	Ala	Trp	Glu	Asn
				85					90					95	
Ser	Pro	Asn	Val	Arg	Glu	Lys	Gly	Ser	Pro	Val	Thr	Ser	Thr	Ala	Pro
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Pro	Ile	Ala	Thr	Gly	Val	Ser	Ser	Ser	Ala	Ser	Gly	Pro	Ser	Thr	Ala
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Asn	Tyr	Asn	Ser	Phe	Ser	Ser	Ala	Ser	Met	Pro	Gln	Ile	Pro	Val	Ala
			130			135					140				
Ser	Val	Thr	Pro	Thr	Ala	Ser	Leu	Ser	Gly	Ala	Gly	Thr	Tyr	Thr	Thr
			145			150				155				160	
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Cys	Lys	Val	Lys	Pro	Gln	Gln	Leu	Gln	Thr	Ser	Ser	Leu	Pro	Ser	Ala
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		195					200					205			
Gln	Gln	Asn	Pro	Gln	Val	Tyr	Val	Ser	Gln	Ser	Ala	Ala	Ala	Gln	Ile
	210					215					220				
Pro	Ala	Phe	Tyr	Met	Asp	Thr	Ser	His	Leu	Phe	Asn	Thr	Gln	His	Ala
225					230					235					240
Arg	Leu	Ala	Pro	Pro	Ser	Leu	Ala	Gln	Gln	Gln	Gly	Phe	Gln	Pro	Gly
				245					250					255	
Leu	Ser	Gln	Pro	Thr	Ser	Val	Gln	Gln	Ile	Pro	Ile	Pro	Ile	Tyr	Ala
			260					265						270	
Pro	Leu	Gln	Gly	Gln	His	Gln	Val	Gln	Leu	Ser	Leu	Gly	Ala	Gly	Pro
		275					280					285			
Ala	Val	Ser	Gln	Ala	Gln	Glu	Leu	Phe	Ser	Ser	Ser	Leu	Gln	Pro	Tyr
	290					295					300				
Arg	Ser	Gln	Pro	Ala	Phe	Met	Gln	Ser	Ser	Leu	Ser	Gln	Pro	Ser	Val
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Val	Leu	Ser	Gly	Thr	Ala	Ile	His	Asn	Phe	Pro	Thr	Val	Gln	His	Gln
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Glu	Leu	Ala	Lys	Ala	Gln	Ser	Gly	Leu	Ala	Phe	Gln	Gln	Thr	Ser	Asn
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Pro	Gly	Gln	Thr	Asn	Phe	Tyr	Asn	Thr	Ala	Gln	Ser	Pro	Ser	Ala	Leu
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Gln	Gln	Val	Thr	Val	Pro	Leu	Pro	Ala	Ser	Gln	Leu	Ser	Leu	Pro	Asn
			420					425					430		
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		435					440					445			
Pro	Pro	Leu	Gln	His	Thr	Thr	Pro	Gln	Ala	Gln	Ala	Gln	Ser	Leu	Ser
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Thr	Gln	His	Ser	Met	Ile	Ala	Thr	Thr	Gly	Lys	Met	Ser	Glu	Met	Glu
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Leu	Lys	Ala	Phe	Gly	Ser	Gly	Ile	Asp	Ile	Lys	Pro	Gly	Thr	Pro	Pro
			500					505					510		
Ile	Ala	Gly	Arg	Ser	Thr	Thr	Pro	Thr	Ser	Ser	Pro	Phe	Arg	Ala	Thr
		515					520					525			
Ser	Thr	Ser	Pro	Asn	Ser	Gln	Ser	Ser	Lys	Met	Asn	Ser	Ile	Val	Tyr
	530					535					540				
Gln	Lys	Gln	Phe	Gln	Ser	Ala	Pro	Ala	Thr	Val	Arg	Met	Thr	Gln	Pro
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Gln Ser Thr Gln Arg Phe Phe Ser Glu Gln Gln Gln Ser Lys Gln Ile  
580 585 590  
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595 600 605  
Glu Thr Leu Thr Asp Pro Pro Gly Val Cys Gln  
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<210> 14096

<211> 1902

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (71).. (658)

<400> 14096

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<210> 14097

<211> 196

<212> PRT

<213> Homo sapiens

<400> 14097

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Asn Ile Met Val Val Gly Gln Ser Gly Leu Gly Lys Ser Thr Leu Ile  
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Asn Thr Leu Phe Lys Ser Lys Ile Ser Arg Lys Ser Val Gln Pro Thr  
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Ser Glu Glu Arg Ile Pro Lys Thr Ile Glu Ile Lys Ser Ile Thr His  
85 90 95  
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Pro Gly Phe Gly Asp His Ile Asn Asn Glu Asn Cys Trp Gln Pro Ile  
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Asn Ile Asn Arg Lys Lys Arg Ile Pro Asp Thr Arg Val His Cys Cys  
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             35             40             45
Gln Phe Lys Leu Leu Trp Ser Gln Asp Ser Trp Thr Asp Ser Gly Ala
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Lys Gly Gly Ser His Arg Asp Val His Thr Lys Glu Pro Pro Ser Ala
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Glu Thr Gly Ser Thr Gly Ser Pro Pro Gly Ser Gly His Gly Asn Glu
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